

15-051-25019

2-11s-19w

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/24/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12423

DST #1

LOCATION : 2-11s-19w Ellis co KS

GR 2085.00 ft

FORMATION: Topeka

INTERVAL : 3030.00 To 3057.00 ft

TD 3057.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 60 Rec.	11084	11084	3227			PF Fr. 2200 to 2300 hr
SI 45 Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 2300 to 2345 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2345 to 0015 hr
FS 0 Depth(ft)	3054.0	3054.0	2034.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1433.0	1427.0	1406.0	0.0	0.0	T STARTED 2000 hr
B. First Flow	77.0	85.0	43.0	0.0	0.0	T ON BOTM 2155 hr
B1. Final Flow	110.0	108.0	83.0	0.0	0.0	T OPEN 2200 hr
C. In Shut-in	807.0	811.0	806.0	0.0	0.0	T PULLED 0015 hr
D. Init Flow	110.0	118.0	86.0	0.0	0.0	T OUT 0135 hr
E. Final Flow	110.0	117.0	94.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1390.0	1400.0	1396.0	0.0	0.0	Tool Wt. 1500.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 46000.00 lbs
						Unseated Str Wt 46000.00 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 237.00 ft
						D.P. Length 2798.00 ft

RECOVERY

Tot Fluid 150.00 ft of 150.00 ft in DC and 0.00 ft in DP
 120.00 ft of Slightly oil cut mud
 0.00 ft of 10% oil 90% mud
 30.00 ft of Slightly oil cut mud
 0.00 ft of 5% oil 95% mud
 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 0.00

BLOW DESCRIPTION

Initial Flow:

Tool slid 7' when opening and then
 slid 2' more during initial flow.
 Bled off blow & had surface blow
 building to 1/2".

Final Flow:

Very weak surface blow (tool slid
 another 6".)

Final Shut-In:

None taken.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.70 lb/cf
Vis.	41.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	90.00 F
Hole Condition	poor
% 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 2-11s-19w Ellis co KS

TICKET No. 12423 D.S.T. No. 1 DATE 1/24/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 27

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 4 Single Total 237???

TOTAL ASSEMBLY 285

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands44 Single 1 Total 2768

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3053

TOTAL DEPTH 3057

TOTAL DRILL PIPE ABOVE K.B. -4

REMARKS:

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

P.O. SUB Top of tool @	3010
C.O. SUB	
S.I. TOOL Sterling	3016
HMV Sterling	3021
JARS n/a	
SAFETY JOINT	
PACKER top	3025
PACKER bottom	3030
DEPTH 3030	
1'to	3031
ANCHOR	
3' perf	3034
AK-1 rec @ 3034	
5 perf	3039
5' perf	3044
5' perf	3049
5' perf	3054
AK-1 red @ 3054	
BULLNOSE 3'bullnose to	3057
T.D.	

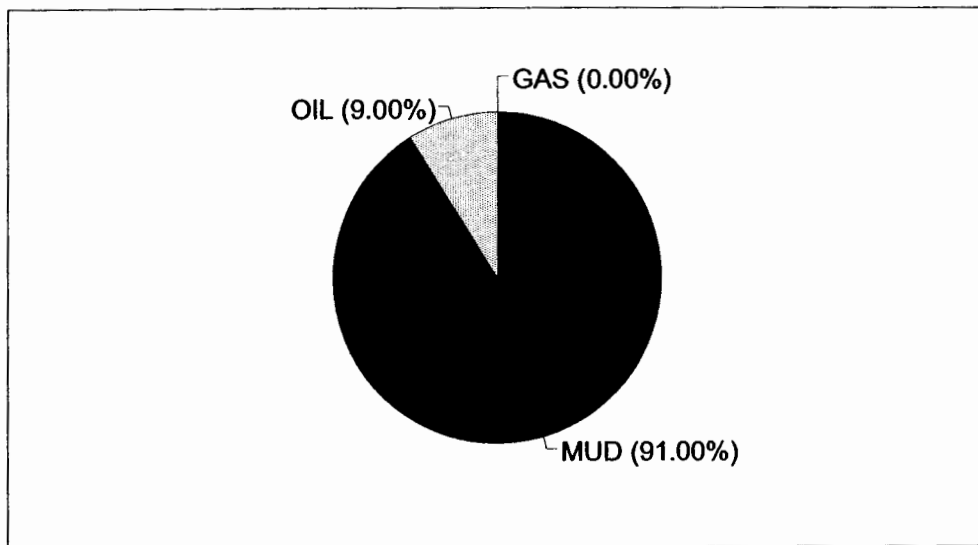
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 12423

SAMPLE		TOTAL		GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET	
DRILL	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	
	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	120	0	0	10	12	0	0	90	108	
COLLARS	2	30	0	0	5	1.5	0	0	95	28.5	
	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		150	0	0	0	13.5	0	0	0	136.5	

			HRS OPEN		BBL/DAY
BBL OIL=	0.066015	*	2.25	=	0.70416
BBL WATER=	0	*		=	0
BBL MUD=	0.667485				
BBL GAS =	0				

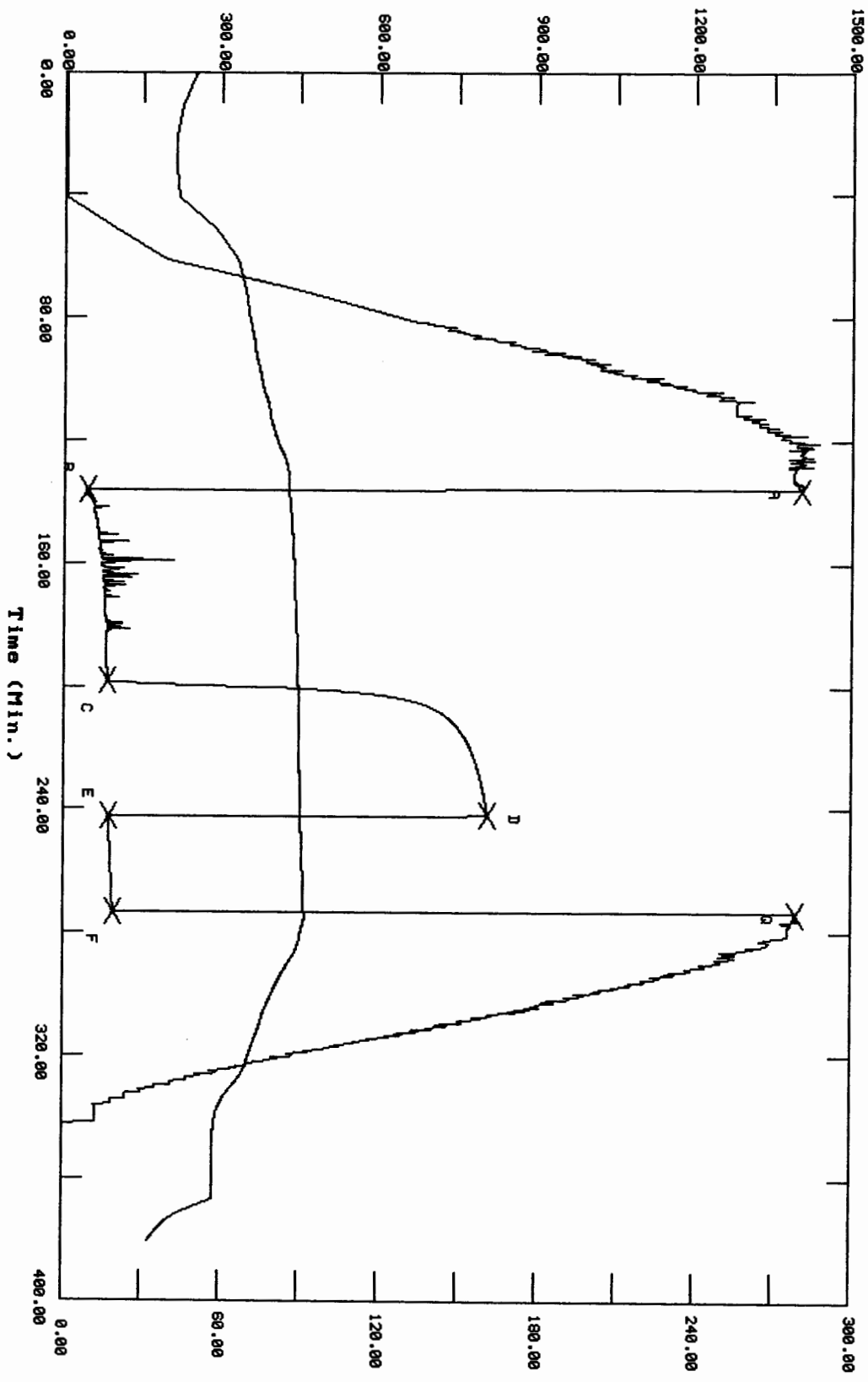


TEST HISTORY

12423 Teet-Bill 12343 Hess Oil Company

Flag Points

t (Min.)	P (PSig)
A: 0.00	1406.10
B: 0.00	43.38
C: 62.00	83.10
D: 43.50	806.52
E: 0.00	85.68
F: 30.75	94.11
G: 0.00	1396.14

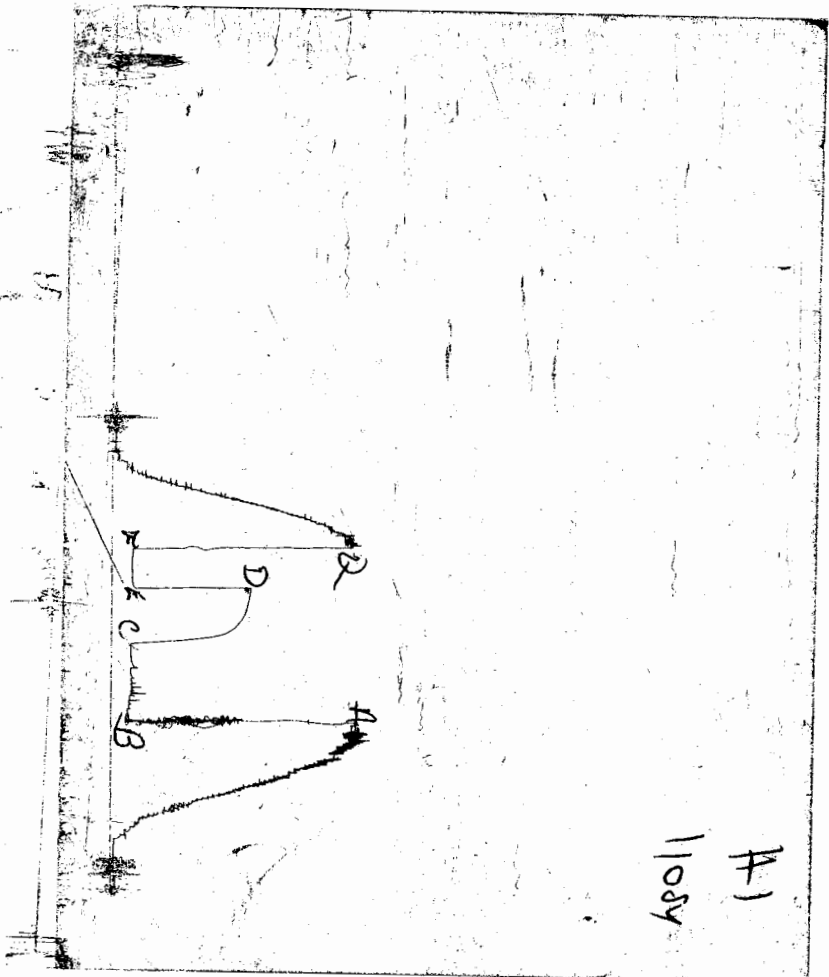


Pressure (PSig)

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

Test Ticket

Nº 12423

Well Name & No. <u>Teet Bill 1-2</u>	Test No. <u>1</u>	Date <u>1-24-2000</u>
Company <u>Hess Oil Company</u>	Zone Tested <u>Topoka</u>	
Address <u>Box 1009 McPherson Ks 67460</u>	Elevation <u>2090</u> KB <u>2085</u> GL	
Co. Rep / Geo. <u>Jamie Hess</u>	Cont. <u>Murfin #8</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>2</u> Twp. <u>11s</u> Rge. <u>Rw</u> Co. <u>Ellis</u> State <u>KS</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>3030-3057</u>	Initial Str Wt./Lbs. <u>46,000</u>	Unseated Str Wt./Lbs. <u>46,000</u>
Anchor Length <u>27</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>55,000</u>
Top Packer Depth <u>3025</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3030</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"	
Total Depth <u>3057</u>	Wt. Pipe Run <u> </u> Drill Collar Run <u>237</u>	
Mud Wt. <u>8.7</u> LCM <u> </u> Vis. <u>41</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 XH</u> Ft. Run <u> </u>	
Blow Description <u>Tool slide 7' when opening - bleed off blow</u> <u>3" blow & hard surface blow building to 3/4"</u> <u>AS - tool slide 6" & had a surface blow</u>		

Recovery — Total Feet <u>150</u>	GIP <u> </u>	Ft. in DC <u>150</u>	Ft. in DP <u> </u>
Rec. <u>120</u> Feet Of <u>SI OCM</u>	%gas <u>10</u> %oil <u> </u> %water <u>90</u> %mud <u> </u>		
Rec. <u>30</u> Feet Of <u>SI OCM</u>	%gas <u>5</u> %oil <u> </u> %water <u>95</u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		

BHT 90 °F Gravity °API D@ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1433</u>	<u>1406</u>	<u>3227</u>	<u>1915</u>
(B) First Initial Flow Pressure	<u>77</u>	<u>43</u>	(depth) <u>3034</u>	T-Started <u>2000</u>
(C) First Final Flow Pressure	<u>110</u>	<u>83</u>	PSI Recorder No. <u>11084</u>	T-Open <u>2200</u>
(D) Initial Shut-In Pressure	<u>807</u>	<u>806</u>	(depth) <u>3054</u>	T-Pulled <u>0015</u>
(E) Second Initial Flow Pressure	<u>110</u>	<u>86</u>	PSI Recorder No. <u> </u>	T-Out <u>0135</u>
(F) Second Final Flow Pressure	<u>110</u>	<u>94</u>	(depth) <u> </u>	T-Off Location <u>0220</u>
(G) Final Shut-in Pressure	<u> </u>	<u> </u>	PSI Initial Opening <u>60</u>	Test <u>600</u>
(Q) Final Hydrostatic Mud	<u>1390</u>	<u>1396</u>	PSI Initial Shut-in <u>45</u>	Jars <u> </u>

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 Paul Simpson

Our Representative Paul Simpson

Final Flow 15 Safety Joint

Final Shut-in Straddle

405 DP Circ. Sub

Sampler

Extra Packer

Elec. Rec. X 150

Mileage

Other

TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/26/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12424

DST #2

LOCATION : 2-11s-19w Ellis co KS

GR 2085.00 ft

FORMATION: Kansas City

INTERVAL : 3297.00 To 3362.00 ft

TD 3362.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	3227			PF Fr. 0408 to 0438 hr
SI 45 Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 0438 to 0523 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0523 to 0553 hr
FS 45 Depth(ft)	3334.0	3334.0	3301.0	0.0	0.0	FS Fr. 0553 to 0638 hr

	Field	1	2	3	4	
A. Init Hydro	1552.0	1602.0	1586.0	0.0	0.0	T STARTED 0235 hr
B. First Flow	109.0	139.0	94.0	0.0	0.0	T ON BOTM 0405 hr
B1. Final Flow	383.0	424.0	445.0	0.0	0.0	T OPEN 0408 hr
C. In Shut-in	807.0	810.0	830.0	0.0	0.0	T PULLED 0638 hr
D. Init Flow	471.0	470.0	458.0	0.0	0.0	T OUT 0910 hr
E. Final Flow	591.0	583.0	607.0	0.0	0.0	
F. Fl Shut-in	807.0	802.0	825.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1551.0	1544.0	1540.0	0.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 48000.00 lbs
						Initial Str Wt 46000.00 lbs
						Unseated Str Wt 47000.00 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 235.00 ft
						D.P. Length 3054.00 ft

RECOVERY

Tot Fluid 1575.00 ft of 235.00 ft in DC and 1340.00 ft in DP
 1095.00 ft of Gas in pipe
 0.00 ft of
 1575.00 ft of Gassy oil
 0.00 ft of 25% gas 75% oil
 0.00 ft of Reversed into pit
 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:
 Strong blow- bottom of bucket in
 90 seconds.

Initial Shut-In:

Blow built to bottom of bucket in
 7 minutes.

Final Flow:

Strong blow bottom of bucket in
 3 minutes.

Final Shut-In:

Blow built to bottom of bucket in
 8 minutes.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	48.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	104.00 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 2-11s-19w Ellis co KS

TICKET No. 12424 D.S.T. No. 2 DATE 1/26/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 34

TOTAL TOOL 55

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 86

D.C. ABOVE TOOLS.Stands4 Single Total 235

D.P. ABOVE TOOLS.Stands53 Single Total 3054

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3375

TOTAL DEPTH 3362

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

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

P.O. SUB Top of tool @	3277
C.O. SUB	
S.I. TOOL Sterling	3283
HMV Sterling	3288
JARS n/a	
SAFETY JOINT	
PACKER top	3292
PACKER bottom	3297
DEPTH 3297	
1'to	3298
ANCHOR	
3' perf	3301
Alpine rec@ 3301	
1 jt of pipe & subs to	3334
AK-1 rec @ 3334	
5 perf	3339
5' perf	3344
5' perf	3349
5' perf	3354
5' perf	3359
BULLNOSE 3'bullnose to T.D.	3362

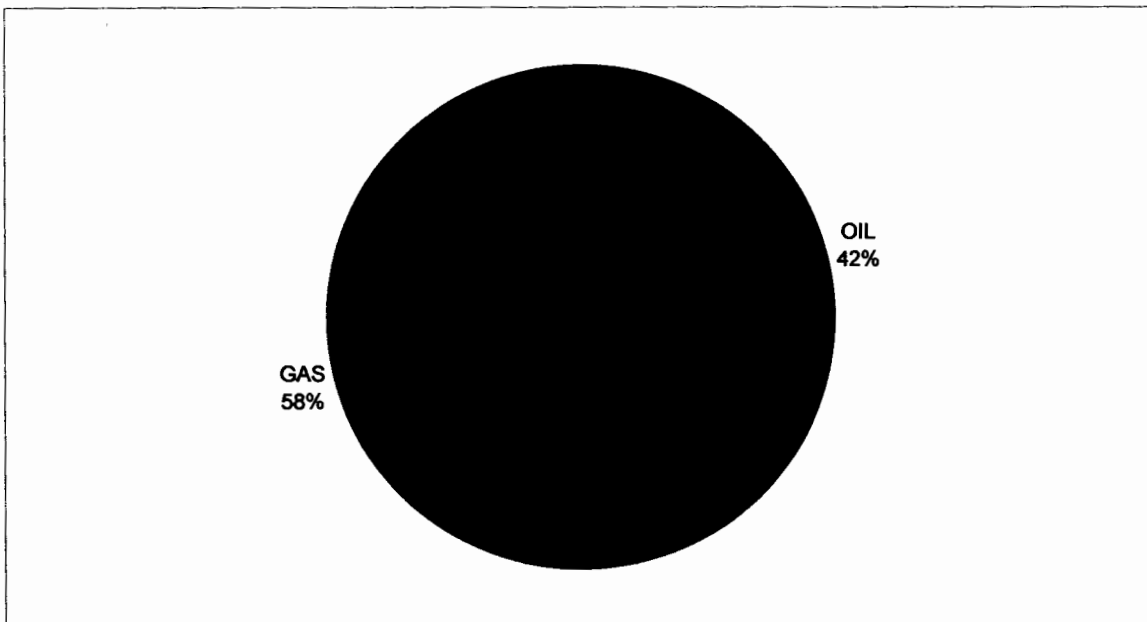
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 12481

SAMPLE #		TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL	1	1095	100	1095	0	0	0	0	0	0
PIPE	2	1340	25	335	75	1005	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	235	25	58.75	75	176.25	0	0	0	0
COLLARS	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
TOTAL		2670	0	1488.75	0	1181.25	0	0	0	0

BBL OIL= 15.152963 * HRS OPEN 1 = BBL/DAY 363.6711
 BBL WATER= 0 * = 0
 BBL MUD= 0
 BBL GAS = 20.621888

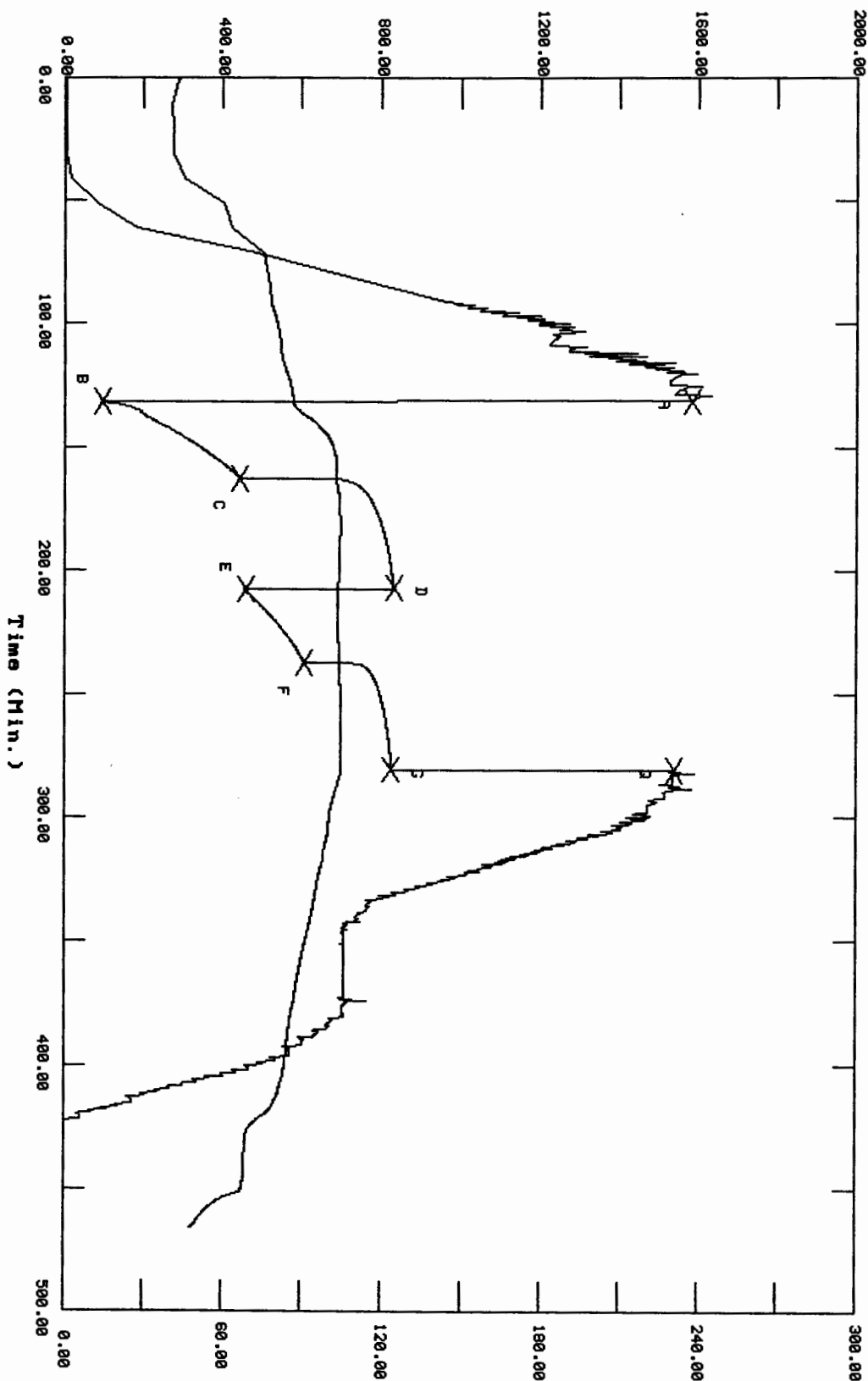


12424 DST #2 Test-Bill 1-2 Hess Oil Company

TEST HISTORY

Flag Points
(Min.) PK PSig)

A:	0.00	1585.58
B:	0.00	94.61
C:	31.00	444.77
D:	44.50	829.67
E:	0.00	457.53
F:	29.75	607.29
G:	43.00	825.35
H:	0.00	1540.38

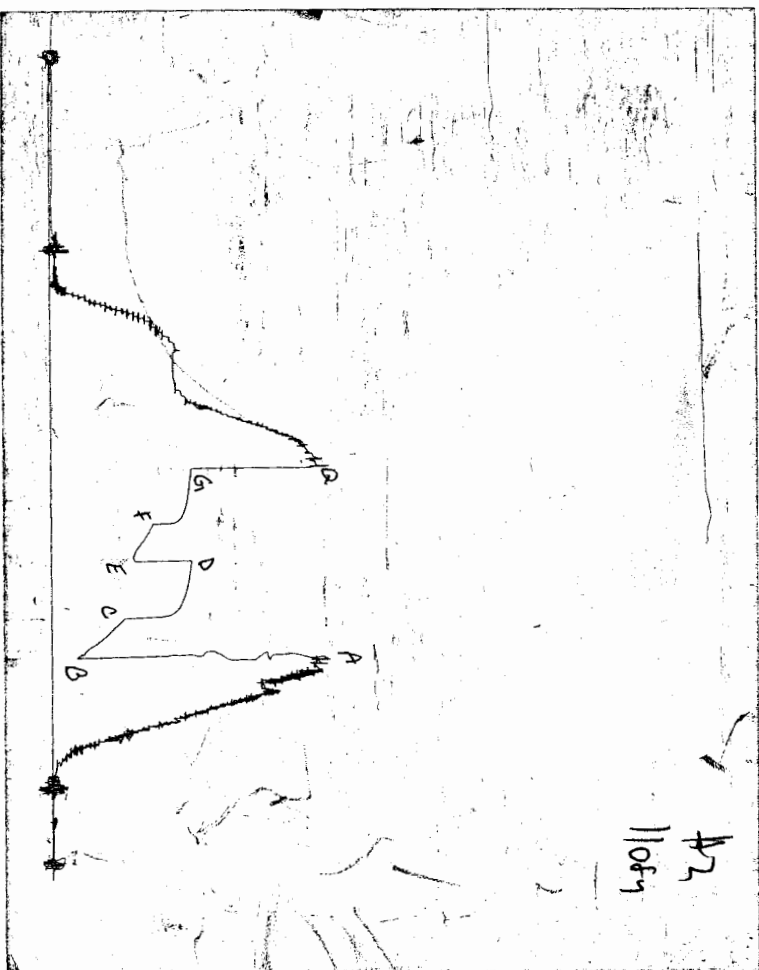


Temperature (DEG F)

Pressure (PSig)

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

Test Ticket

N^o 12424

Well Name & No.	Test Bill 1-2	Test No.	2	Date	1-26-2000
Company	Hess Oil Company	Zone Tested	LKC		
Address		Elevation	2090	KB	2085 GL
Co. Rep / Geo.	Jamie Hess	Cont.	Murfin 8	Est. Ft. of Pay	Por. %
Location: Sec.	2	Twp.	11s	Rge.	Gw
				Co.	Ells
				State	Ks
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
				Evaluation (Y, N)	

Interval Tested 3297-3362 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 47,000
Anchor Length 65 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 48,000
Top Packer Depth 3292 Tool Weight 2500
Bottom Packer Depth 3297 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 3362 Wt. Pipe Run _____ Drill Collar Run 235
Mud Wt. 8.9 LCM _____ Vis. 48 WL 8.4 Drill Pipe Size 4 1/2 x A Ft. Run 3054
Blow Description strong blow - bottom of bucket in 90 seconds
DSP - blow built to bottom of bucket in 7 minutes
ES - strong blow - bottom of bucket in 3 minutes
FSD - blow built to bottom of bucket in 3 minutes

Recovery — Total Feet _____ GIP 1095 Ft. in DC _____ Ft. in DP _____
Rec. 1575 Feet Of GO 25 %gas 75 %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 _____ °F Gravity 35 °API D@ 50 °F Corrected Gravity 36 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	1552	1586	PSI Recorder No.	3227
(B) First Initial Flow Pressure	169	99	PSI (depth)	3301
(C) First Final Flow Pressure	383	445	PSI Recorder No.	11084
(D) Initial Shut-In Pressure	807	830	PSI (depth)	3334
(E) Second Initial Flow Pressure	471	438	PSI Recorder No.	
(F) Second Final Flow Pressure	591	607	PSI (depth)	
(G) Final Shut-in Pressure	807	825	PSI Initial Opening	30
(Q) Final Hydrostatic Mud	1551	1540	PSI Initial Shut-in	45

Final Flow 30 Final Shut-in 45
T-On Location 2330 T-Started 0235
T-Open 0408 T-Pulled 0608
T-Out 0910 T-Off Location _____
Test 600 Jars _____
Safety Joint _____
Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Elec. Rec. 150
Mileage _____
Other 1 hr 30 min
TOTAL PRICE \$ 750
750

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 Paul Simpson

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/26/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12425 DST #3

LOCATION : 2-11s-19w Ellis co KS

GR 2085.00 ft

FORMATION: Kansas City 'G'

INTERVAL : 3364.00 To 3410.00 ft

TD 3410.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	3227			PF Fr. 2000 to 2030 hr
SI 60 Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 2030 to 2130 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2130 to 2200 hr
FS 60 Depth(ft)	3407.0	3407.0	3368.0	0.0	0.0	FS Fr. 2200 to 2300 hr

	Field	1	2	3	4	
A. Init Hydro	1702.0	1645.0	1640.0	0.0	0.0	T STARTED 1815 hr
B. First Flow	55.0	47.0	18.0	0.0	0.0	T ON BOTM 1957 hr
B1. Final Flow	55.0	43.0	25.0	0.0	0.0	T OPEN 2000 hr
C. In Shut-in	818.0	787.0	796.0	0.0	0.0	T PULLED 2300 hr
D. Init Flow	66.0	51.0	27.0	0.0	0.0	T OUT hr
E. Final Flow	66.0	54.0	31.0	0.0	0.0	
F. Fl Shut-in	775.0	753.0	763.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1660.0	1622.0	1560.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 46000.00 lbs
						Unseated Str Wt 46000.00 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 235.00 ft
						D.P. Length 3116.00 ft

RECOVERY

Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP
 20.00 ft of Oil specked slightly water cut mud
 0.00 ft of 3% oil 10% water 87% mud
 0.00 ft of
 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 0.00

BLOW DESCRIPTION

Initial Flow:

Weak 1/2" blow built to 1 1/4".

Initial Shut-In:

No blow.

Final Flow:

Weak surface blow.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	50.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 2-11s-19w Ellis co KS

TICKET No. 12425 D.S.T. No. 3 DATE 1/26/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 15

TOTAL TOOL 36

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 67

D.C. ABOVE TOOLS.Stands4 Single Total 235

D.P. ABOVE TOOLS.Stands54 Single Total 3116

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3418

TOTAL DEPTH 3410

TOTAL DRILL PIPE ABOVE K.B. 8

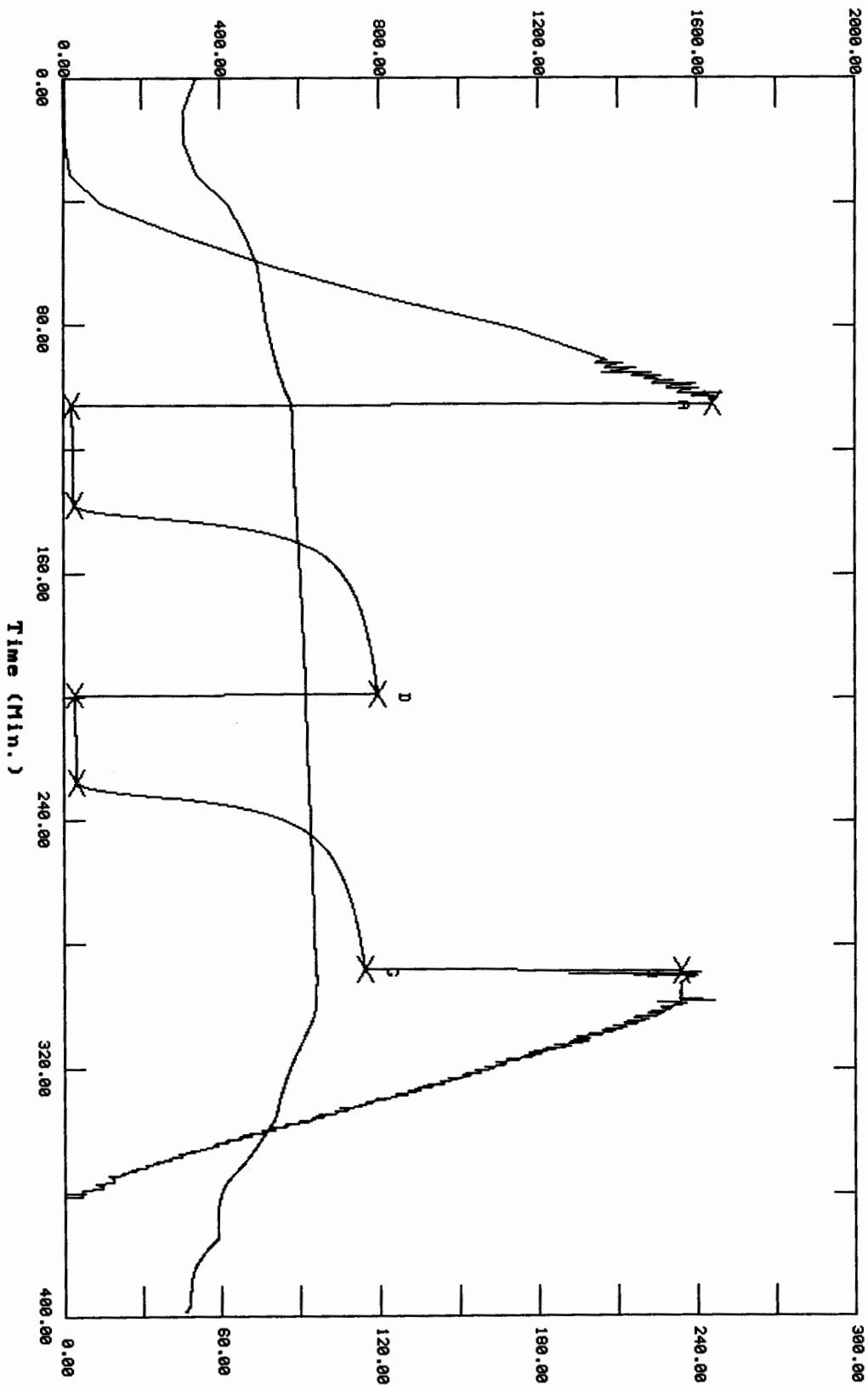
REMARKS:

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

P.O. SUB Top of tool @	3344
C.O. SUB	
S.I. TOOL Sterling	3350
HMV Sterling	3355
JARS n/a	
SAFETY JOINT N/A	
PACKER top	3359
PACKER bottom	3364
DEPTH 3364	
1'to	3365
ANCHOR	
3' perf	3368
Alpine rec@ 3368	
1 jt of pipe & subs to	3401
5' perf	3406
1' perf	3407
AK-1 rec @ 3407	
BULLNOSE 3'bullnose to T.D.	3410

TEST HISTORY

12425 DST #3 Teet-Bill 1-2 Hess Oil Company

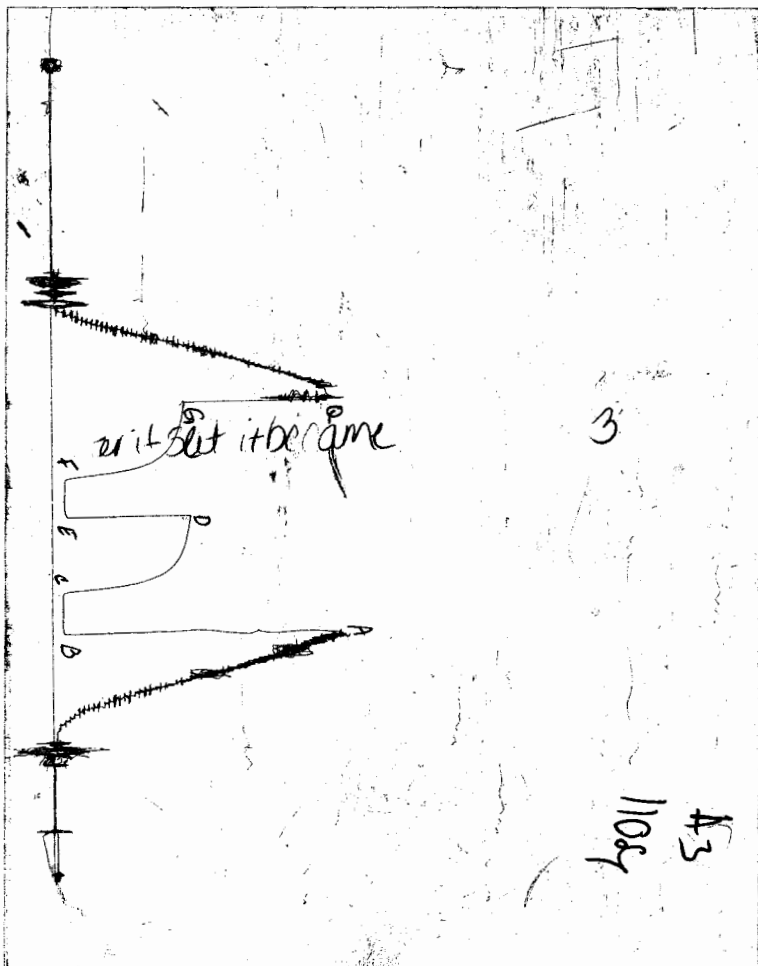


Flag Points

t (Min.)	P (PSig)
A: 0.00	1640.54
B: 0.00	18.29
C: 32.00	24.84
D: 61.50	796.87
E: 0.00	26.86
F: 28.25	30.81
G: 60.50	762.72
H: 0.00	1560.47

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

Test Ticket

Nº 12425

Well Name & No.	Test - Bill 1-2	Test No.	3	Date	1-26-2000
Company	Hess Oil Company	Zone Tested	LILL 6-		
Address		Elevation	2090	KB	2085 GL
Co. Rep / Geo.	Jamie Hess	Cont.	Murphy #8	Est. Ft. of Pay	Por. %
Location: Sec.	2	Twp.	11S	Rge.	19W Co. E11R State K
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	3354-3410	Initial Str Wt./Lbs.	46,000	Unseated Str Wt./Lbs.	46,000
Anchor Length	46	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	50,000
Top Packer Depth	3359	Tool Weight	2200		
Bottom Packer Depth	3364	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	3410	Wt. Pipe Run		Drill Collar Run	235
Mud Wt.	8.9 LCM	Drill Pipe Size	4 1/2 x 11	Ft. Run	3116
Vis.	50				
WL	8.4				
Blow Description	weak 1/2" blow bolt to 1 1/4"				
	FF - very weak surface blow				

Recovery — Total Feet	20	GIP		Ft. in DC	20	Ft. in DP	
Rec.	20	Feet Of	oil soaked mud	%gas	2	%oil	%water 98 %mud
Rec.		Feet Of	after it got it became	%gas	3	%oil	10 %water 87 %mud
Rec.		Feet Of		%gas		%oil	%water %mud
Rec.		Feet Of		%gas		%oil	%water %mud
Rec.		Feet Of		%gas		%oil	%water %mud
BHT	94	°F Gravity		°API D@		°F Corrected Gravity	°API
RW		@		°F Chlorides		ppm Recovery	Chlorides ppm System

(A) Initial Hydrostatic Mud	AK-1 1702	Alpine 1640	PSI Recorder No.	11084	T-On Location	1630
(B) First Initial Flow Pressure	55	18	PSI (depth)	3358	T-Started	1815
(C) First Final Flow Pressure	55	25	PSI Recorder No.	3227	T-Open	2000
(D) Initial Shut-In Pressure	818	746	PSI (depth)	3407	T-Pulled	2300
(E) Second Initial Flow Pressure	66	27	PSI Recorder No.		T-Out	0035
(F) Second Final Flow Pressure	66	31	PSI (depth)		T-Off Location	0035
(G) Final Shut-in Pressure	775	763	PSI Initial Opening	30	Test	600
(Q) Final Hydrostatic Mud	1660	1560	PSI Initial Shut-in	60	Jars	
			Final Flow	30	Safety Joint	
			Final Shut-in	60	Straddle	
			54 DP		Circ. Sub	
					Sampler	
					Extra Packer	
					Elec. Rec.	150
					Mileage	
					Other	1 hr std by 30
					TOTAL PRICE \$	780

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 Jamie Hess
Our Representative Paul Spivey

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/27/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12426

DST #4

LOCATION : 02 T11s R19w Ellis KS

GR 2085.00 ft

FORMATION: Kansas City 'H'

INTERVAL : 3408.00 To 3440.00 ft

TD 3440.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	11084	11084	3227			PF Fr. 0818 to 0820 hr
SI 0 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. to hr
SF 0 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. to hr
FS 0 Depth(ft)	3437.0	3437.0	3412.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 0645 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 0815 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 1818 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0832 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 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	0.0	0.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 42000.00 lbs
						Initial Str Wt 42000.00 lbs
						Unseated Str Wt 42000.00 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 235.00 ft
						D.P. Length 3176.00 ft

RECOVERY

Tot Fluid 250.00 ft of 235.00 ft in DC and 15.00 ft in DP
 250.00 ft of Mud
 0.00 ft of 100% mud
 0.00 ft of
 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 0.00

BLOW DESCRIPTION

Initial Flow:
 Packer failure.
 Tried twice.

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	50.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 02 T11s R19w Ellis KS

TICKET No. 12426 D.S.T. No. 4 DATE 1/27/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 32

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 53

D.C. ABOVE TOOLS.Stands4 Single Total 235

D.P. ABOVE TOOLS.Stands55 Single Total 3173

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3464

TOTAL DEPTH 3440

TOTAL DRILL PIPE ABOVE K.B. 24

REMARKS:

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

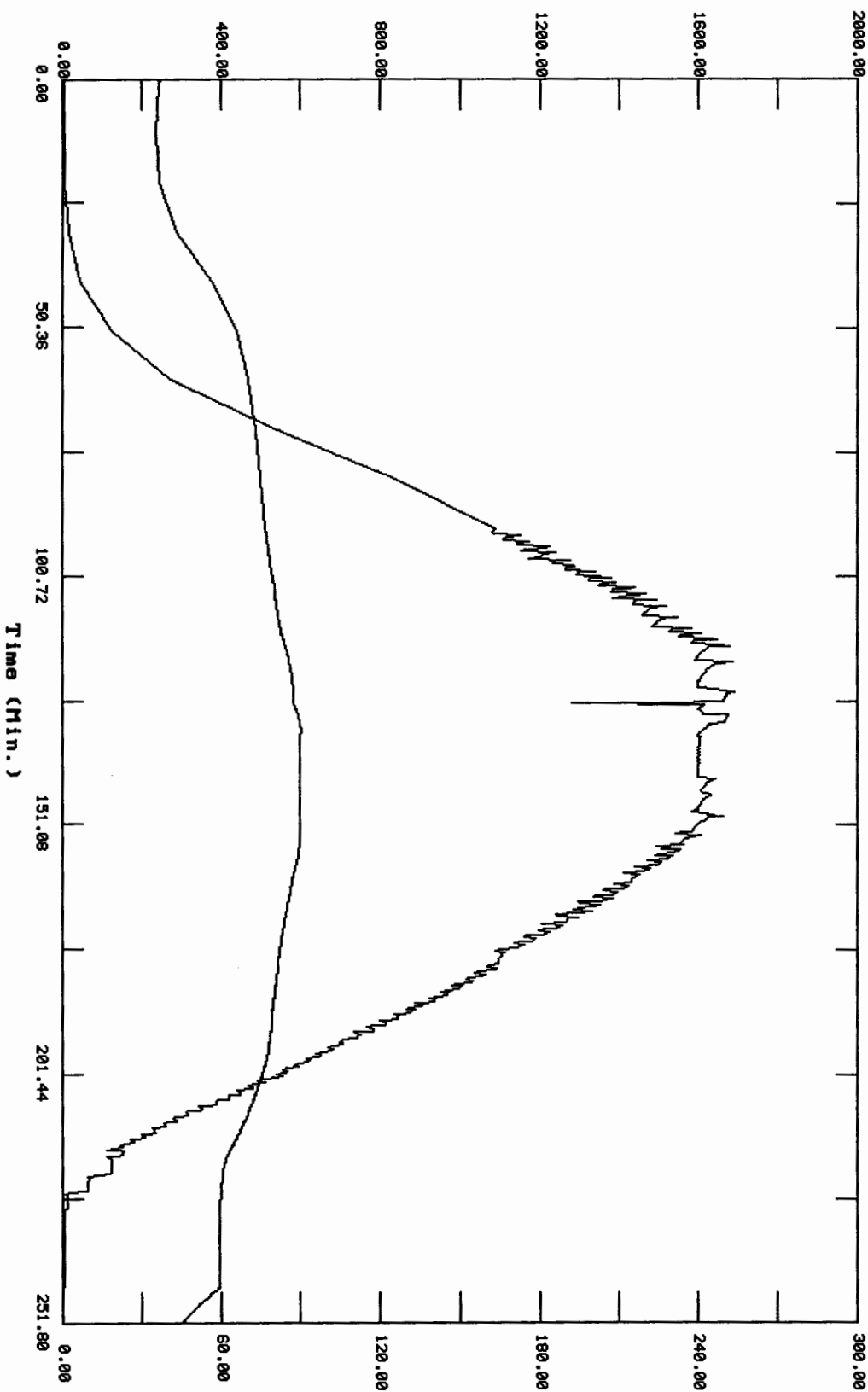
P.O. SUB Top of tool @	3388
C.O. SUB	
S.I. TOOL Sterling	3394
HMV Sterling	3399
JARS n/a	
SAFETY JOINT N/A	
PACKER top	3403
PACKER bottom	3408
DEPTH 3408	
1'to	3409
ANCHOR	
3' perf	3412
Alpine rec@ 3412	
5' perf	3417
5' perf	3422
5' perf	3427
5' perf	3432
5' perf	3437
AK-1 rec @ 3437	
BULLNOSE 3'bullnose to	3440
T.D.	

12426827Test-Bill 1-2 DST #4 & 5 Hess Oil Company

TEST HISTORY

Flag Points
t(Min.) P(PSig)

R:	0.00	1672.92
B:	0.00	35.67
C:	42.00	44.93
D:	63.25	914.61
E:	0.00	51.87
F:	44.50	55.98
G:	60.25	770.25
H:	0.00	1628.08



Pressure (PSig)

Temperature (DEG F)

Time (Min.)

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12426

Well Name & No.	Teet-Bill 1-2	Test No.	4	Date	1-27-2000
Company	Hess Oil Company	Zone Tested	LKC 14		
Address		Elevation		KB	GL
Co. Rep / Geo.	Jamie Hess	Cont.	Murfin A-8	Est. Ft. of Pay	Por. %
Location: Sec.	2	Twp.	11s	Rge.	19w
				Co.	Ellis
				State	Ks
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
				Evaluation (Y, N)	

Interval Tested	3408-3440	Initial Str Wt./Lbs.	42,000	Unseated Str Wt./Lbs.	42,000
Anchor Length	32	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	42,000
Top Packer Depth	3403	Tool Weight	1900		
Bottom Packer Depth	3408	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	3440	Wt. Pipe Run		Drill Collar Run	235
Mud Wt.	8.9 LCM	Drill Pipe Size	4 1/2" H	Ft. Run	3176
Vis.	50				
WL	8.4				
Blow Description	Packer failure - tried twice				

Recovery — Total Feet	250	GIP		Ft. in DC	235	Ft. in DP	15
Rec.	250	Feet Of	mud	%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		°F Gravity		°API D@		°F Corrected Gravity	
RW		@		°F Chlorides		ppm Recovery	
				Chlorides		ppm System	

(A) Initial Hydrostatic Mud	PSI	Recorder No.	3227	T-On Location	0625
(B) First Initial Flow Pressure	PSI	(depth)	3412	T-Started	0645
(C) First Final Flow Pressure	PSI	Recorder No.	11084	T-Open	0818
(D) Initial Shut-In Pressure	PSI	(depth)	3437	T-Pulled	0832
(E) Second Initial Flow Pressure	PSI	Recorder No.		T-Out	1010
(F) Second Final Flow Pressure	PSI	(depth)		T-Off Location	
(G) Final Shut-in Pressure	PSI	Initial Opening		Test	400
(Q) Final Hydrostatic Mud	PSI	Initial Shut-in		Jars	

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 Paul Simpson

Final Flow	Safety Joint
Final Shut-in	Straddle
	Circ. Sub
	Sampler
	Extra Packer
	Elec. Rec.
	Mileage
	Other
	TOTAL PRICE \$

150

550

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/27/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12427

DST #5

LOCATION : 2-11s-19w Ellis co KS

GR 2085.00 ft

FORMATION: Kansas City 'H'

INTERVAL : 3380.00 To 3440.00 ft

TD 3440.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	11084	11084	3227			PF Fr. 1211 to 1256 hr
SI 60	Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 1256 to 1356 hr
SF 45	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1356 to 1441 hr
FS 60	Depth(ft)	3437.0	3437.0	3427.0	0.0	0.0	FS Fr. 1441 to 1541 hr

	Field	1	2	3	4	
A. Init Hydro	1703.0	1699.0	1673.0	0.0	0.0	T STARTED 1045 hr
B. First Flow	66.0	58.0	36.0	0.0	0.0	T ON BOTM 1209 hr
B1. Final Flow	77.0	58.0	45.0	0.0	0.0	T OPEN 1211 hr
C. In Shut-in	926.0	897.0	915.0	0.0	0.0	T PULLED 1541 hr
D. Init Flow	77.0	63.0	52.0	0.0	0.0	T OUT hr
E. Final Flow	88.0	63.0	56.0	0.0	0.0	
F. Fl Shut-in	764.0	746.0	770.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1681.0	1660.0	1629.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 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 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 235.00 ft
						D.P. Length 3145.00 ft

RECOVERY

Tot Fluid 62.00 ft of 62.00 ft in DC and 0.00 ft in DP

2.00 ft of Clean oil

0.00 ft of 100% oil

60.00 ft of Slightly oil cut mud

0.00 ft of 15% oil 85% mud

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 0.00

BLOW DESCRIPTION

Initial Flow:

Weak 1/2" blow building to 2 1/4".

Final Flow:

Surface blow building to 1 1/2".

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	50.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 2-11s-19w Ellis co KS

TICKET No. 12427 D.S.T. No. 5 DATE 1/27/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 29

TOTAL TOOL 50

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 31 Total

TOTAL ASSEMBLY 81

D.C. ABOVE TOOLS.Stands4 Single Total 235

D.P. ABOVE TOOLS.Stands54 Single 1 Total 3145

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3461

TOTAL DEPTH 3440

TOTAL DRILL PIPE ABOVE K.B. 21

REMARKS:

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

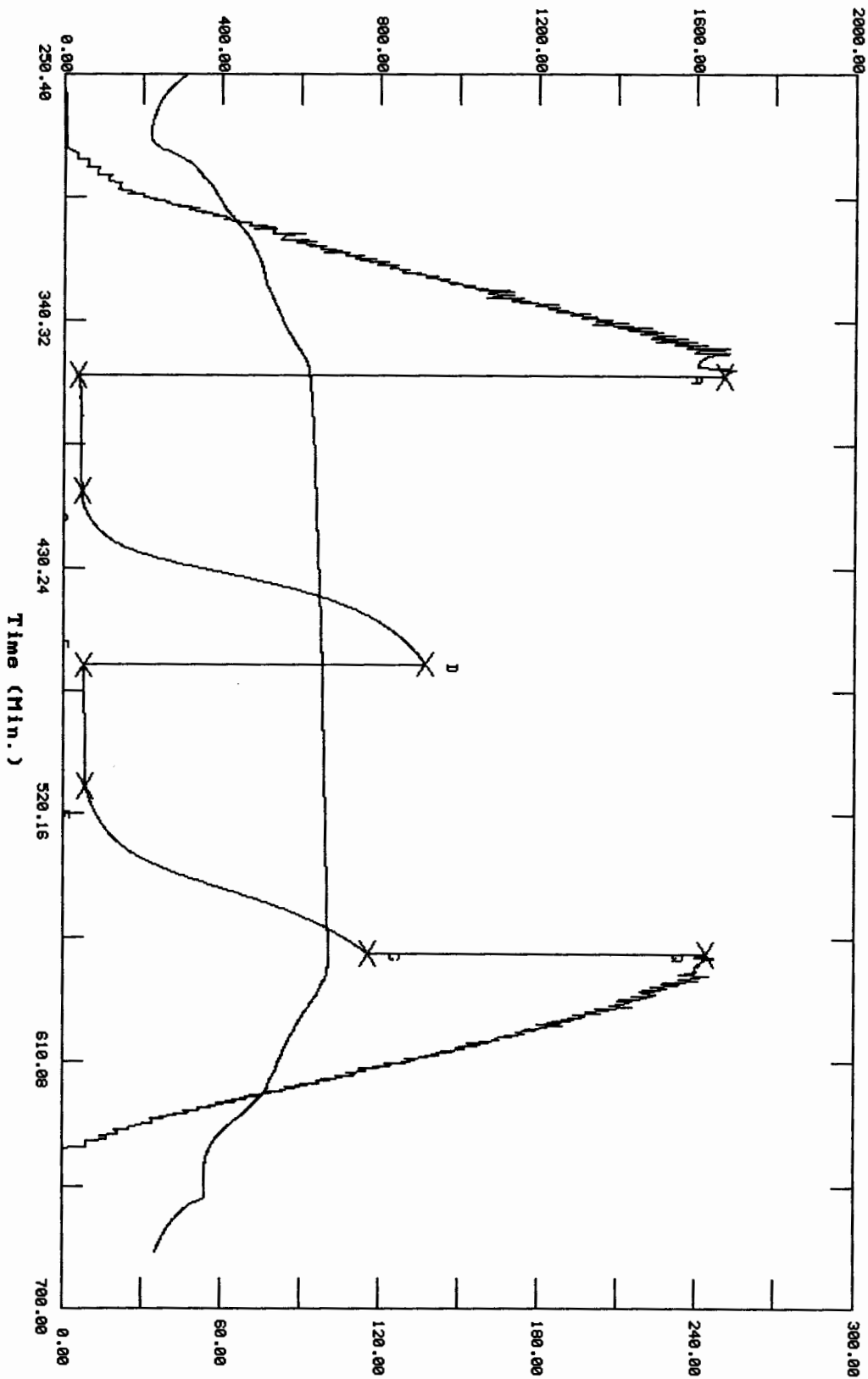
P.O. SUB Top of tool @	3360
C.O. SUB	
S.I. TOOL Sterling	3366
HMV Sterling	3371
JARS n/a	
SAFETY JOINT N/A	
PACKER top	3375
PACKER bottom	3380
DEPTH 3380	
1'to	3381
ANCHOR	
3' perf	3384
1 joint of pipe & subs to	3427
5' perf	3432
5' perf	3437
AK-1 rec @ 3437	
BULLNOSE 3'bullnose to T.D.	3440

TEST HISTORY

12426827 Teet-Bill 1-2 DST #4 & 5 Hess Oil Company

Flag Points

	t (Min.)	P (PSig)
A:	0.00	1672.92
B:	0.00	35.67
C:	42.00	44.93
D:	63.25	914.61
E:	0.00	51.87
F:	44.50	55.98
G:	60.25	770.25
H:	0.00	1628.88

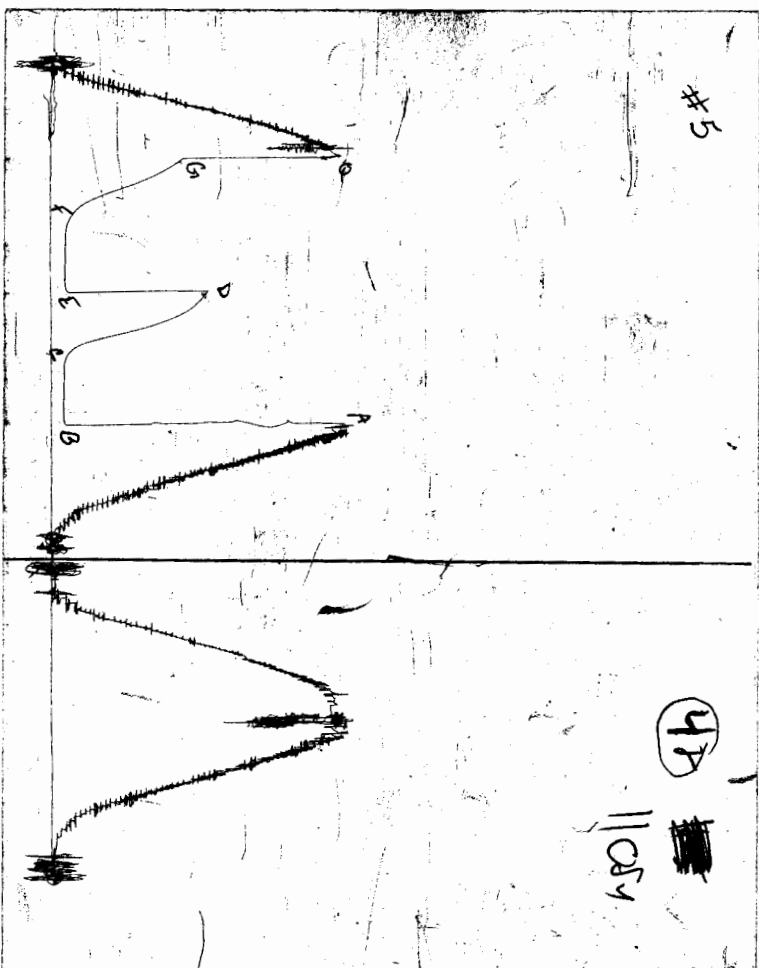


Pressure (PSig)

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

Test Ticket

Nº 12427

Well Name & No.	Teeg - Bill 1-2	Test No.	5	Date	1-27-2000
Company	Hess Oil Company	Zone Tested	LKC A		
Address		Elevation		KB	GL
Co. Rep / Geo.	Samie Hys	Cont.	Mufm A8	Est. Ft. of Pay	Por. %
Location: Sec.	2	Twp.	11s	Rge.	19w
				Co.	Ells
				State	Ks
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
				Evaluation (Y, N)	

Interval Tested	3380 - 3440	Initial Str Wt./Lbs.	45,000	Unseated Str Wt./Lbs.	
Anchor Length	60	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	
Top Packer Depth	3375	Tool Weight	2400		
Bottom Packer Depth	3380	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	3440	Wt. Pipe Run		Drill Collar Run	
Mud Wt.	LCM	Vis.		Drill Pipe Size	4 1/2 XH
		WL		Ft. Run	3145
Blow Description	Weak 1/2" blow building to 2 1/4"				

Fr - surface blow building to 1 1/2"

Recovery — Total Feet	62	GIP		Ft. in DC	62	Ft. in DP	
Rec.	2	Feet Of	clean oil	%gas		%oil	
Rec.	60	Feet Of	slightly oil cut mud	%gas	15	%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
BHT		°F Gravity		°API D@		°F Corrected Gravity	
RW		@		°F Chlorides		ppm Recovery	
				Chlorides		ppm System	

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	1703	1673	PSI Recorder No.	3227	T-On Location
(B) First Initial Flow Pressure	66	36	PSI (depth)	3427	T-Started
(C) First Final Flow Pressure	77	45	PSI Recorder No.	11084	T-Open
(D) Initial Shut-In Pressure	926	915	PSI (depth)	3437	T-Pulled
(E) Second Initial Flow Pressure	77	52	PSI Recorder No.		T-Out
(F) Second Final Flow Pressure	88	56	PSI (depth)		T-Off Location
(G) Final Shut-in Pressure	764	770	PSI Initial Opening	45	Test
(Q) Final Hydrostatic Mud	1681	1629	PSI Initial Shut-in	60	Jars
			Final Flow	45	Safety Joint
			Final Shut-in	60	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 Paul Simpson

Extra Packer
Elec. Rec. 150
Mileage
Other
TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/28/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12428

DST #6

LOCATION : 2-11s-19w Ellis co KS

GR 2085.00 ft

FORMATION: Kansas City 'J-L'

INTERVAL : 3444.00 To 3500.00 ft

TD 3500.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	11084	11084	3227			PF Fr. 0556 to 0641 hr
SI 60	Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 0641 to 0741 hr
SF 45	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0741 to 0826 hr
FS 60	Depth(ft)	3481.0	3481.0	3448.0	0.0	0.0	FS Fr. 0826 to 0926 hr

	Field	1	2	3	4	
A. Init Hydro	1734.0	1716.0	1676.0	0.0	0.0	T STARTED 0415 hr
B. First Flow	55.0	51.0	20.0	0.0	0.0	T ON BOTM 0554 hr
B1. Final Flow	110.0	111.0	87.0	0.0	0.0	T OPEN 0556 hr
C. In Shut-in	1261.0	1157.0	1138.0	0.0	0.0	T PULLED 0926 hr
D. Init Flow	77.0	140.0	97.0	0.0	0.0	T OUT 1127 hr
E. Final Flow	88.0	157.0	129.0	0.0	0.0	
F. Fl Shut-in	1250.0	1140.0	1129.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1681.0	1695.0	1657.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 46000.00 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 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 235.00 ft
						D.P. Length 3207.00 ft

RECOVERY

Tot Fluid 265.00 ft of 235.00 ft in DC and 30.00 ft in DP
 30.00 ft of Gas in pipe
 30.00 ft of Clean oil
 60.00 ft of Muddy oil
 0.00 ft of 85% oil 15% mud
 60.00 ft of Gassy oil & water cut mud
 0.00 ft of 10% gas 20% oil 10% water 60% mud
 115.00 ft of Slightly oil & water cut mud
 0.00 ft of 5% oil 20% water 25% mud
 SALINITY 22000.00 P.P.M. A.P.I. Gravity 24.00

BLOW DESCRIPTION

Initial Flow:
 3/4" blow building to 9".

Initial Shut-In:

Weak surface blow.

Final Flow:

1/2" blow building to 7".

Final Shut-In:

Surface blow throughout.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	48.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	102.00 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

Test Successful: Y

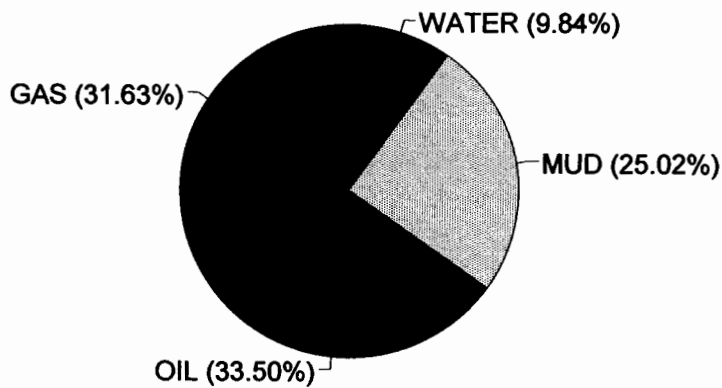
CALCULATED RECOVERY ANALYSIS

DST 6

TICKET 12428

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	30	100	30	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
DRILL	1	30	0	0	100	30	0	0	0
COLLARS	2	60	0	0	85	51	0	15	9
	3	60	10	6	20	12	10	60	36
	4	115	0	0	5	5.75	20	25	28.75
	5	0	0	0	0	0	0	0	0
TOTAL		295	0	36	0	98.75	0	29	73.75

			HRS OPEN		BBL/DAY
BBL OIL=	0.482888	*	1.5	=	7.7262
BBL WATER=	0.14181	*		=	2.26896
BBL MUD=	0.360638				
BBL GAS =	0.45594				



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 2-11s-19w Ellis co KS

TICKET No. 12428 D.S.T. No. 6 DATE 1/28/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 25

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 77

D.C. ABOVE TOOLS.Stands4 Single Total 235

D.P. ABOVE TOOLS.Stands55 Single 1 Total 3207

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3519

TOTAL DEPTH 3500

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:

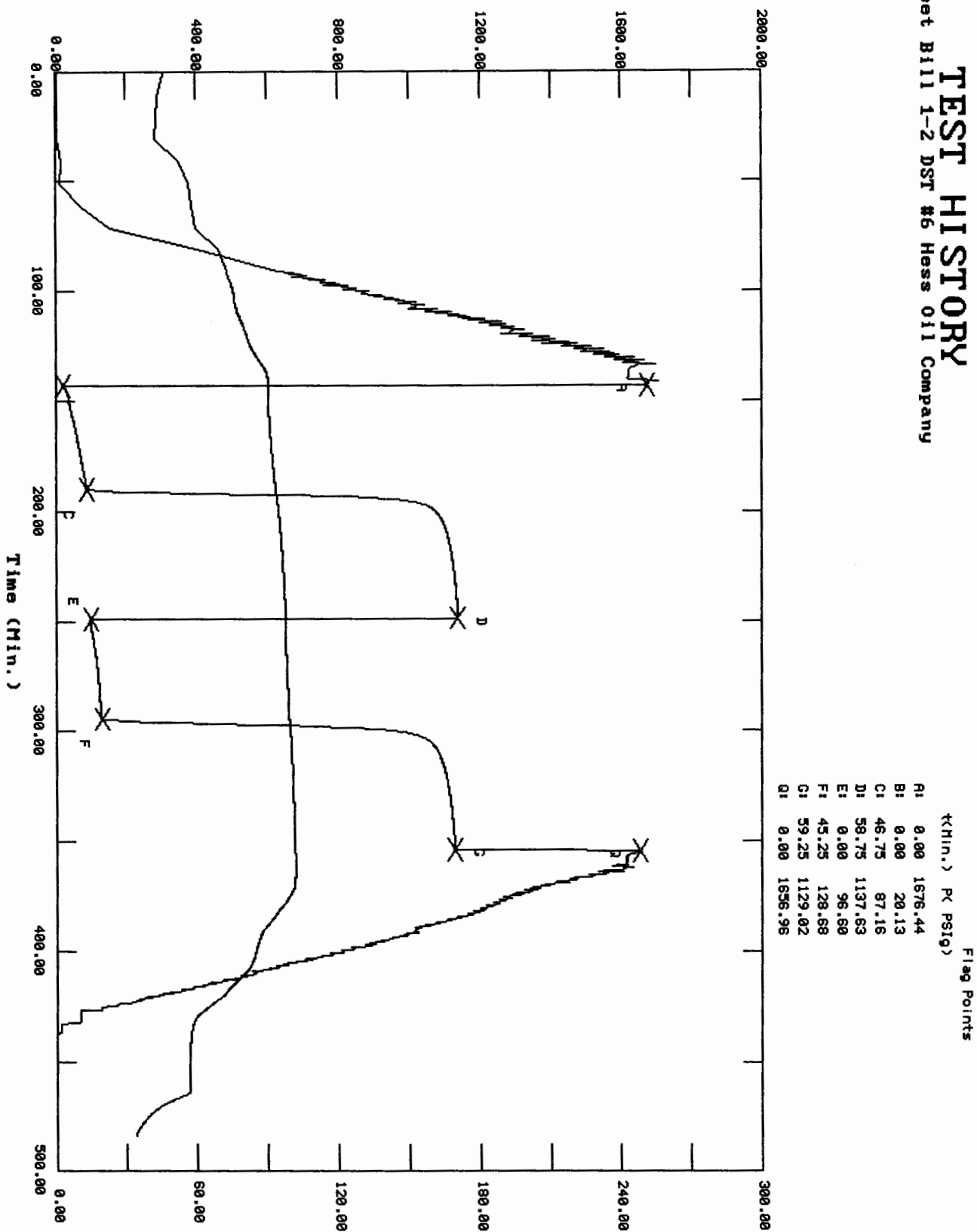
Fluid sampler data --not run
 Sampler recovery pit mud analysis
 gas- cf -ML. Chlorides--- ---ppm.
 oil-----ML. res-----Ohms@-----F'
 mud--- -----ML. viscosity--- -----
 water-----ML. mud wt.-----
 other-----ML. Filtrate-----
 pressure- ---PSI. Other---none-----
 Total--4000-----ML.

Rw .248@95

P.O. SUB Top of tool @	3424
C.O. SUB	
S.I. TOOL Sterling	3430
HMV Sterling	3435
JARS n/a	
SAFETY JOINT N/A	
PACKER top	3439
PACKER bottom	3444
DEPTH 3444	
1'to	3445
ANCHOR	
3' perf	3448
Alpine rec @ 3448	
1 joint of pipe	
& subs to	3481
AK-1 rec@ 3481	
5' perf	3486
5' perf	3491
5' perf	3496
1' perf	3497
BULLNOSE 3'bullnose to	3500
T.D.	

TEST HISTORY

12428 Test Bill 1-2 DST #6 Hess Oil Company

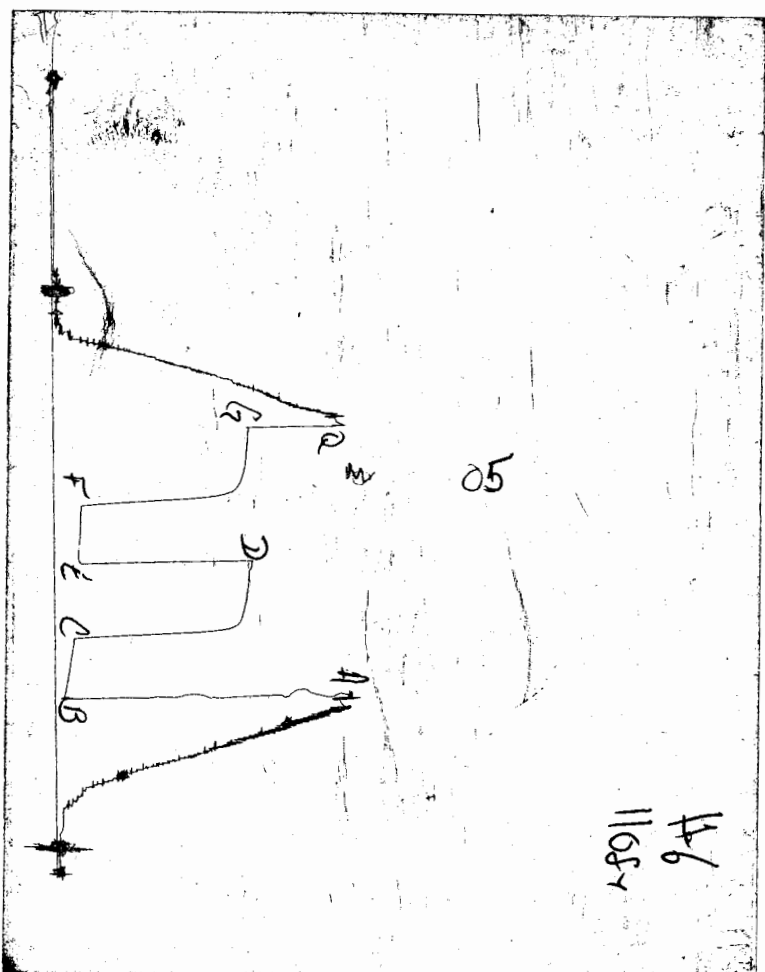


Pressure (PSig)

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

Test Ticket

N^o 12428

Well Name & No. <u>Test - Bill 1-2</u>	Test No. <u>6</u>	Date <u>1-28-2000</u>
Company <u>Hess Oil Company</u>	Zone Tested <u>LK 5-L</u>	
Address _____	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Jamie Hess</u>	Cont. <u>Murfin 8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>2</u> Twp. <u>11s</u>	Rge. <u>Mw</u>	Co. <u>Ellis</u> State <u>K</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3444-3500</u>	Initial Str Wt./Lbs. <u>45,000</u>	Unseated Str Wt./Lbs. <u>45,000</u>
Anchor Length <u>56</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>46,000</u>
Top Packer Depth <u>3439</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3444</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>3500</u>	Wt. Pipe Run _____	Drill Collar Run <u>235</u>
Mud Wt. _____ LCM _____ Vis. _____ Wt. _____	Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>3200</u>
Blow Description <u>7 1/2" blow building to 9"</u>		
<u>ESI surface blow</u>		
<u>8 1/2" blow building to 7 1/2"</u>		
<u>ESI surface blow through out</u>		

Recovery — Total Feet _____	GIP <u>30</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>30</u> Feet Of <u>clear oil</u>	%gas _____ %oil _____ %water _____ %mud _____		
Rec. <u>60</u> Feet Of <u>muddy oil</u>	<u>10</u> %gas <u>85</u> %oil _____ %water <u>15</u> %mud _____		
Rec. <u>60</u> Feet Of <u>gassy oil wcm</u>	<u>10</u> %gas <u>20</u> %oil <u>10</u> %water <u>60</u> %mud _____		
Rec. <u>1015</u> Feet Of <u>slow wcm</u>	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
BHT <u>102</u> °F Gravity <u>27</u>	°API D ₆₀ <u>90</u>	°F Corrected Gravity <u>24</u>	°API _____
RW <u>248</u> @ <u>95</u> °F	Chlorides <u>22,000</u> ppm Recovery	Chlorides <u>4000</u> ppm System	

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1734</u>	<u>1676</u>	PSI Recorder No. <u>3227</u>	T-On Location <u>100055</u>
(B) First Initial Flow Pressure	<u>55</u>	<u>20</u>	PSI (depth) <u>3448</u>	T-Started <u>0415</u>
(C) First Final Flow Pressure	<u>110</u>	<u>87</u>	PSI Recorder No. <u>11084</u>	T-Open <u>0556</u>
(D) Initial Shut-In Pressure	<u>1261</u>	<u>1138</u>	PSI (depth) <u>3481</u>	T-Pulled <u>0926</u>
(E) Second Initial Flow Pressure	<u>75</u>	<u>97</u>	PSI Recorder No. _____	T-Out <u>1127</u>
(F) Second Final Flow Pressure	<u>88</u>	<u>129</u>	PSI (depth) _____	T-Off Location _____
(G) Final Shut-in Pressure	<u>1250</u>	<u>1129</u>	PSI Initial Opening <u>45</u>	Test <u>600</u>
(Q) Final Hydrostatic Mud	<u>1681</u>	<u>1657</u>	PSI Initial Shut-in <u>60</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint _____
			Final Shut-in <u>60</u>	Straddle _____

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Approved By Jamie C. Hess
Our Representative Paul Simpson

Circ. Sub _____
Sampler _____
Extra Packer _____
Elec. Rec. 150
Mileage _____
Other 2 hrs 60
TOTAL PRICE \$ 810

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/29/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12429

DST #7

LOCATION : 2-11s-19w Ellis co KS

GR 2085.00 ft

FORMATION: Simpson/Arbuckle'

INTERVAL : 3494.00 To 3606.00 ft

TD 3606.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 60	Rec.	11084	11084	3227			PF Fr. 0022 to 0122 hr
SI 60	Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 0122 to 0222 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0222 to 0322 hr
FS 60	Depth(ft)	3592.0	3592.0	3497.0	0.0	0.0	FS Fr. 0322 to 0422 hr

	Field	1	2	3	4	
A. Init Hydro	1745.0	1724.0	1721.0	0.0	0.0	T STARTED 2215 hr
B. First Flow	65.0	43.0	24.0	0.0	0.0	T ON BOTM 0020 hr
B1. Final Flow	131.0	141.0	78.0	0.0	0.0	T OPEN 0022 hr
C. In Shut-in	1088.0	1099.0	1248.0	0.0	0.0	T PULLED 0422 hr
D. Init Flow	153.0	159.0	85.0	0.0	0.0	T OUT 0635 hr
E. Final Flow	175.0	178.0	119.0	0.0	0.0	
F. Fl Shut-in	1066.0	1072.0	1019.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1637.0	1637.0	1675.0	0.0	0.0	Tool Wt. 2700.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 52000.00 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 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 235.00 ft
						D.P. Length 3269.00 ft

RECOVERY

Tot Fluid 250.00 ft of 235.00 ft in DC and 15.00 ft in DP

135.00 ft of Clean gassy oil

0.00 ft of 10% gas 90% oil

115.00 ft of Slightly oil cut mud

0.00 ft of 15% oil 85% mud

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 28.00

BLOW DESCRIPTION

Initial Flow

Weak 1" blow surging & building to 5".

Final Flow:

Surface blow building to 4".

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	48.50 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	98.00 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

Test Successful: Y

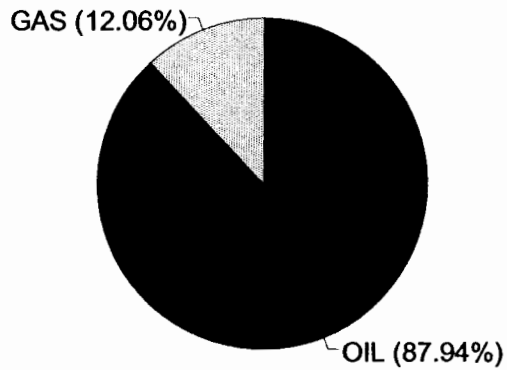
CALCULATED RECOVERY ANALYSIS

DST 7

TICKET 12429

SAMPLE		TOTAL		GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET	%
DRILL	1	15	10	1.5	90	13.5	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0
DRILL	1	120	10	12	90	108	0	0	0	0	0
COLLARS	2	115	15	17.25	85	97.75	0	0	0	0	0
	3	60	0	0	0	0	0	0	0	0	0
	4	115	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0
TOTAL		425	0	30.75	0	219.25	0	0	0	0	0

BBL OIL= 1.198088 * HRS OPEN 2 = BBL/DAY 14.37705
 BBL WATER= 0 * = 0
 BBL MUD= 0
 BBL GAS = 0.164363



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 2-11s-19w Ellis co KS

TICKET No. 12429 D.S.T. No. 7 DATE 1/29/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 93

TOTAL ASSEMBLY 133

D.C. ABOVE TOOLS.Stands4 Single Total 235

D.P. ABOVE TOOLS.Stands56 Single 1 Total 3269

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3637

TOTAL DEPTH 3606

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

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

P.O. SUB Top of tool @	3474
C.O. SUB	
S.I. TOOL Sterling	3480
HMV Sterling	3485
JARS n/a	
SAFETY JOINT N/A	
PACKER top	3489
PACKER bottom	3494
DEPTH 3494	
1'to	3495
ANCHOR	
3' perf	3498
Alpine rec @ 3498	
3 joints of pipe	
& subs to	3593
AK-1 rec@ 3493	
5' perf	3598
5' perf	3603
BULLNOSE 3'bullnose to	3606
T.D.	

TEST HISTORY

12429 Test-Bill 1-2 DST #7 Hess Oil Company

Flag Points

	t (Min.)	P (PSig)
A:	0.00	1721.14
B:	0.00	23.66
C:	62.25	78.23
D:	57.25	1047.57
E:	0.00	85.18
F:	60.50	118.73
G:	59.25	1019.19
H:	0.00	1674.96

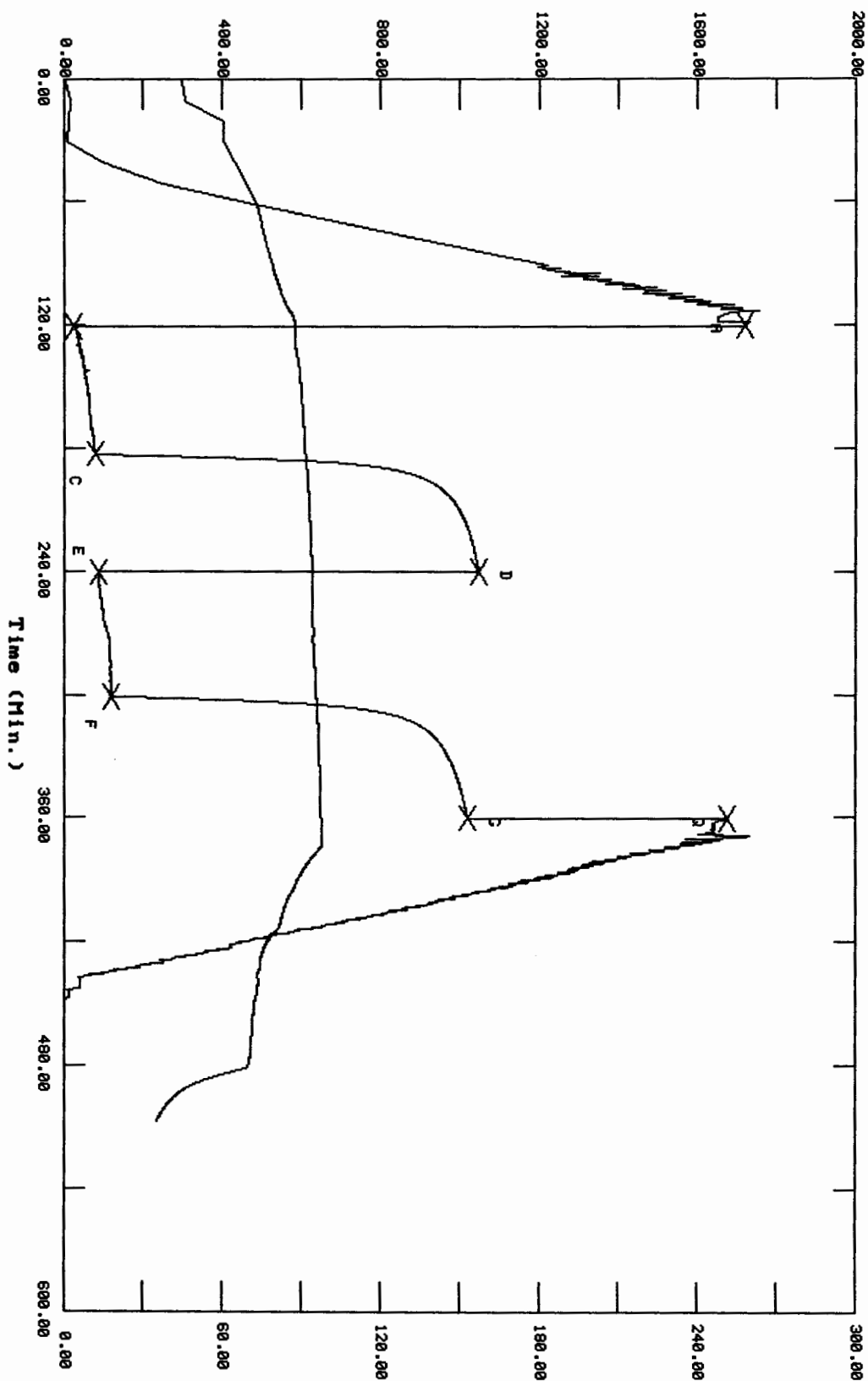
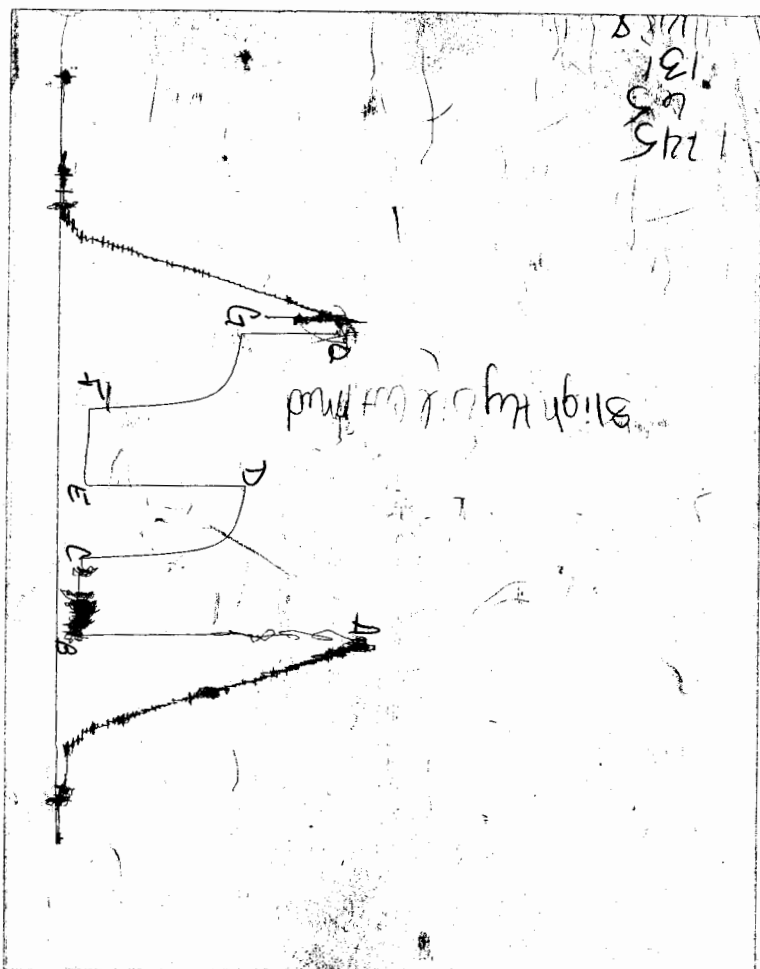


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12429

Well Name & No.	Test Bill 1-2	Test No.	5	Date	1-29-2000
Company	Hess Oil Company	Zone Tested	Simpson Arbuckle		
Address		Elevation		KB	GL
Co. Rep / Geo.	Jamie Hess	Cont.	Muffin #8	Est. Ft. of Pay	Por. %
Location: Sec.	2	Twp.	11 S	Rge.	19 W
				Co.	Ellis
				State	Ks
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
				Evaluation (Y, N)	

Interval Tested 3493-3605 ← should be
Anchor Length 112 3606
Top Packer Depth 3488 3489
Bottom Packer Depth 3493 3494
Total Depth 3605 3606
Mud Wt. 8.9 LCM 45 Vis. 9.2 WL 9.2
Blow Description weak 1" blow surging & building to 5"

Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
Wt. Set Lbs. 28,000 Wt. Pulled Loose/Lbs. 52,000
Tool Weight 2700
Hole Size — 7 7/8" Rubber Size — 6 3/4"
Wt. Pipe Run 235 Drill Collar Run 235
Drill Pipe Size 4 1/2 x H Ft. Run 3269

SS. surface blow building to 4"

Recovery — Total Feet 250 GIP Ft. in DC 235 Ft. in DP 15
Rec. 135 Feet Of clean gassy oil 10 %gas 90 %oil %water %mud
Rec. 115 Feet Of Slightly oil cut mud %gas 15 %oil %water 85 %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
BHT 98 °F Gravity 31 °API D@ 90 °F Corrected Gravity 28 °API
RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1745</u>	Alpine <u>1721</u>	PSI Recorder No.	<u>3227</u>	T-On Location	<u>2110</u>
(B) First Initial Flow Pressure	<u>65</u>	<u>24</u>	PSI (depth)	<u>3497</u>	T-Started	<u>2215</u>
(C) First Final Flow Pressure	<u>131</u>	<u>78</u>	PSI Recorder No.	<u>11084</u>	T-Open	<u>0022</u>
(D) Initial Shut-in Pressure	<u>1088</u>	<u>1248</u>	PSI (depth)	<u>3592</u>	T-Pulled	<u>0422</u>
(E) Second Initial Flow Pressure	<u>153</u>	<u>85</u>	PSI Recorder No.	<u> </u>	T-Out	<u>0635</u>
(F) Second Final Flow Pressure	<u>175</u>	<u>119</u>	PSI (depth)	<u> </u>	T-Off Location	<u> </u>
(G) Final Shut-in Pressure	<u>10610</u>	<u>1019</u>	PSI Initial Opening	<u>60</u>	Test	<u>6000</u>
(Q) Final Hydrostatic Mud	<u>1637</u>	<u>1675</u>	PSI Initial Shut-in	<u>60</u>	Jars	<u> </u>
			Final Flow	<u>60</u>	Safety Joint	<u> </u>
			Final Shut-in	<u>60</u>	Straddle	<u> </u>

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
Our Representative Paul Simpson

All depths need
to be corrected
down 1'

Extra Packer
Elec. Rec. 150
Mileage
Other
TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company

DATE 1/29/2000

WELL NAME: Teet Bill 1-2

KB 2090.00 ft

TICKET NO: 12430

DST #8

LOCATION : 2-11s-19w Ellis co KS

GR 2085.00 ft

FORMATION: Arbuckle

INTERVAL : 3604.00 To 3616.00 ft

TD 3616.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	3227			PF Fr. 1523 to 1553 hr
SI 45 Range(Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 1553 to 1538 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1538 to 1608 hr
FS 45 Depth(ft)	3613.0	3613.0	3605.0	0.0	0.0	FS Fr. 1608 to 1653 hr

	Field	1	2	3	4	
A. Init Hydro	1821.0	1803.0	1784.0	0.0	0.0	T STARTED 1339 hr
B. First Flow	667.0	683.0	752.0	0.0	0.0	T ON BOTM 1521 hr
Bl. Final Flow	1013.0	1009.0	1019.0	0.0	0.0	T OPEN 1523 hr
C. In Shut-in	1175.0	1170.0	1154.0	0.0	0.0	T PULLED 1653 hr
D. Init Flow	1121.0	1117.0	1081.0	0.0	0.0	T OUT 2045 hr
E. Final Flow	1175.0	1169.0	1150.0	0.0	0.0	
F. Fl Shut-in	1175.0	1184.0	1157.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1800.0	1774.0	1737.0	0.0	0.0	Tool Wt. 1700.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 46000.00 lbs
						Unseated Str Wt 47000.00 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 235.00 ft
						D.P. Length 3362.00 ft

RECOVERY

Tot Fluid 2540.00 ft of 235.00 ft in DC and 2305.00 ft in DP
 2540.00 ft of Salt water
 0.00 ft of 100% water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw .17@90

SALINITY 30000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow building to bottom of
 bucket in 40 seconds.

Initial Shut-In:

Weak surface blow.

Final Flow:

Strong blow building to bottom of
 bucket in 90 seconds.

Final Shut-In:

No blow.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	48.50 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 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.	Jamie Hess
Contr.	Murfin
Rig #	8
Unit #	no
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Teet Bill 1-2

LOCATION : 2-11s-19w Ellis co KS

TICKET No. 12430 D.S.T. No. 8 DATE 1/29/2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 12

TOTAL TOOL 33

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 33

D.C. ABOVE TOOLS.Stands4 Single Total 235

D.P. ABOVE TOOLS.Stands58 Single Total 3362

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3630

TOTAL DEPTH 3616

TOTAL DRILL PIPE ABOVE K.B. 14

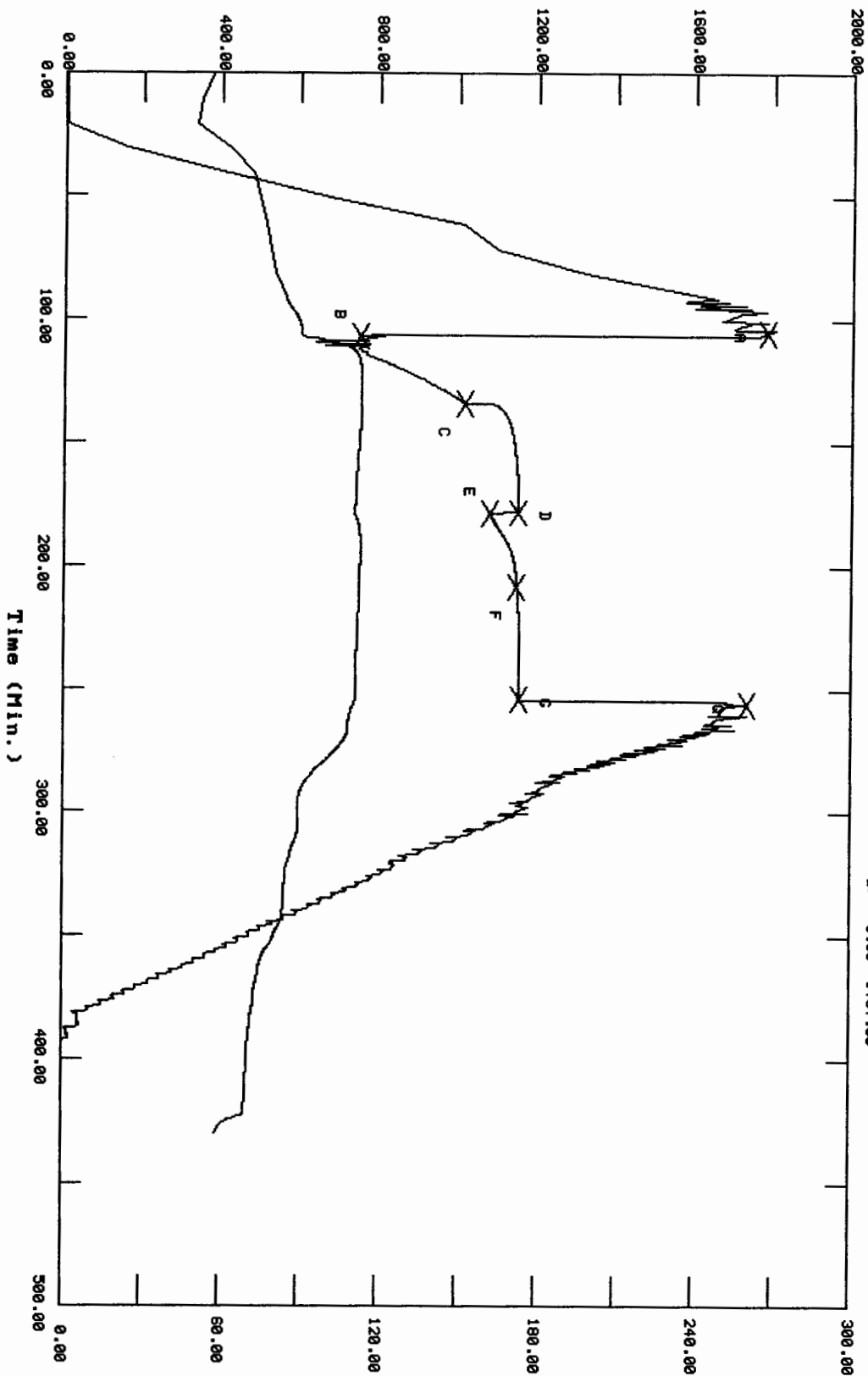
REMARKS:

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

P.O. SUB Top of tool @	3584
C.O. SUB	
S.I. TOOL Sterling	3590
HMV Sterling	3595
JARS n/a	
SAFETY JOINT N/A	
PACKER top	3599
PACKER bottom	3604
DEPTH 3604	
1'to	3605
ANCHOR	
Alpine rec @ 3605	
5' perf	3610
3' perf	3613
AK-1 rec @ 3613	
BULLNOSE 3'bullnose to T.D.	3616

TEST HISTORY

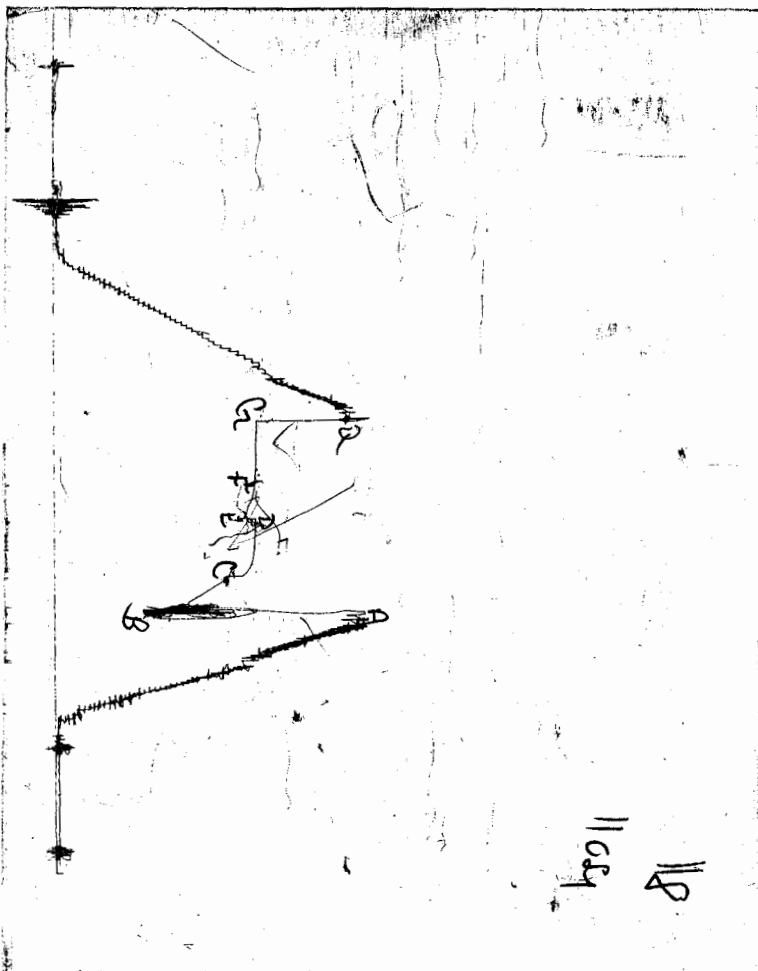
12430 Teet-Bill 1-2 DST #8 Hess Oil Company



Flag Points
T(Min.) P(PSig)

A	0.00	1763.75
B	0.00	752.49
C	27.25	1016.67
D	44.25	1153.65
E	0.00	1081.39
F	30.00	1149.87
G	45.75	1157.20
H	0.00	1737.55

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

Test Ticket

Nº 12430

Well Name & No.	Teet - Bill 1-2		Test No.	8		Date	1-29-2000	
Company	Hess Oil Company		Zone Tested	Arbuckle				
Address			Elevation			KB		
Co. Rep / Geo.	Jamie Hess		Cont.	Murdin #8		Est. Ft. of Pay	Por. %	
Location: Sec.	2		Twp.	11s		Rge.	Kw	
			Co.	Ellis		State	ks	
No. of Copies	Distribution Sheet (Y, N)		Turnkey (Y, N)			Evaluation (Y, N)		

Interval Tested	3604-3616	Initial Str Wt./Lbs.	46,000	Unseated Str Wt./Lbs.	47,000
Anchor Length	12	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	50,000
Top Packer Depth	3599	Tool Weight	1700		
Bottom Packer Depth	3604	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth		Wt. Pipe Run		Drill Collar Run	235
Mud Wt.	LCM	Vis.		Drill Pipe Size	4 1/2 x 11
		WL		Ft. Run	3362

Blow Description strong blow - bottom bucket in 40 sec
1st - weak surface blow
2nd - strong - bottom of bucket in 90 sec
3rd - no blow

Recovery — Total Feet	2540	GIP		Ft. in DC	235	Ft. in DP	2305
Rec.	2540	Feet Of	Salt water	%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 °F Gravity °API D @ °F Corrected Gravity °API
 RW 17 @ 90 °F Chlorides 30,000 ppm Recovery Chlorides ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	1821	1784	PSI Recorder No.	3227
(B) First Initial Flow Pressure	667	752	PSI (depth)	3605
(C) First Final Flow Pressure	1013	1017	PSI Recorder No.	11084
(D) Initial Shut-In Pressure	1175	1154	PSI (depth)	3613
(E) Second Initial Flow Pressure	1121	1081	PSI Recorder No.	
(F) Second Final Flow Pressure	1175	1150	PSI (depth)	
(G) Final Shut-in Pressure	1175	1157	PSI Initial Opening	30
(Q) Final Hydrostatic Mud	1800	1737	PSI Initial Shut-in	45
			Final Flow	30
			Final Shut-in	45

T-On Location 1145
 T-Started 1339
 T-Open 1523
 T-Pulled 1653
 T-Out 2045
 T-Off Location 2130

Test 600
 Jars

Safety Joint
 Straddle

Circ. Sub
 Sampler

Extra Packer
 Elec. Rec. 150

Mileage
 Other 1 hr std by 30

TOTAL PRICE \$ 780

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Approved By James L. Hess
 Our Representative Paul Simpson