

15-195-22178

26-11s-21w

WELL NAME: Lucille #3
COMPANY: Hess Oil Company
LOCATION: 26-11S-21W
Trego County Kansas
DATE: 07/19/96

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company
 WELL NAME: Lucille #3
 LOCATION : 26-11S-21W, Trego Cty KS
 INTERVAL : 3605.00 To 3700.00 ft

DATE 07/19/96
 KB 2319.00 ft TICKET NO: 9271 DST #1
 GR 2314.00 ft FORMATION: Lansing
 TD 3700.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 60 Rec.	13339	13339	13276			PF Fr. 0246 to 0346 hr
SI 45 Range(Psi)	4000.0	4000.0	4000.0	0.0	0.0	IS Fr. 0346 to 0431 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 0431 to 0531 hr
FS 45 Depth(ft)	3620.0	3620.0	3695.0	0.0	0.0	FS Fr. 0531 to 0616 hr

	Field	1	2	3	4	
A. Init Hydro	1922.0	1921.0	0.0	0.0	0.0	T STARTED 0100 hr
B. First Flow	124.0	133.0	0.0	0.0	0.0	T ON BOTM 0244 hr
B1. Final Flow	249.0	266.0	0.0	0.0	0.0	T OPEN 0246 hr
C. In Shut-in	499.0	509.0	0.0	0.0	0.0	T PULLED 0616 hr
D. Init Flow	311.0	320.0	0.0	0.0	0.0	T OUT 0800 hr
E. Final Flow	332.0	351.0	0.0	0.0	0.0	
F. Fl Shut-in	519.0	527.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1862.0	1858.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 30000.00 lbs

RECOVERY

Tot Fluid 560.00 ft of 500.00 ft in DC and 60.00 ft in DP
 5.00 ft of Free oil - 100% oil
 555.00 ft of Muddy water - 85% water, 15% mud

Initial Str Wt 68000.00 lbs
 Unseated Str Wt 70000.00 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 500.00 ft
 D.P. Length 3166.00 ft

RW .10 @ 74 F

SALINITY 75000.00 P.P.M. A.P.I. Gravity 37.00

BLOW DESCRIPTION

Initial Flow -
 Weak surface blow slowly built to
 bottom in 52 minutes

Initial Shutin -
 Bled off blow, no return

Final Flow -
 Weak surface return staying steady
 at .5" throughout

Final Shutin -
 No blow

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 8.90 lb/c
 Vis. 46.00 S/L
 W.L. 15.20 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 123.00 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 Rod Steinbrink
 Co. Rep. Jamie Hess
 Contr. Murfin
 Rig # 3
 Unit #
 Pump T.

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

DST 1

TICKE 9271

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	5	0	100	5	0	0	0	0
PIPE	2	55	0		0	85	46.75	15	8.25
	3		0		0		0		0
	4		0		0		0		0
	5		0		0		0		0
	6		0		0		0		0
WEIGHT	1		0		0		0		0
PIPE	2		0		0		0		0
	3		0		0		0		0
	4		0		0		0		0
DRILL	1	500	0		0	85	425	15	75
COLLAR	2		0		0		0		0
	3		0		0		0		0
	4		0		0		0		0
	5		0		0		0		0
TOTAL		560	0		5		471.75		83.25

HRS OPEN BBL/DAY
 BBL OIL= 0.0711 * 2 = 0.8532
 BBL WATER 2.74304 * = 32.9164
 BBL MUD= 0.48407
 BBL GAS = 0

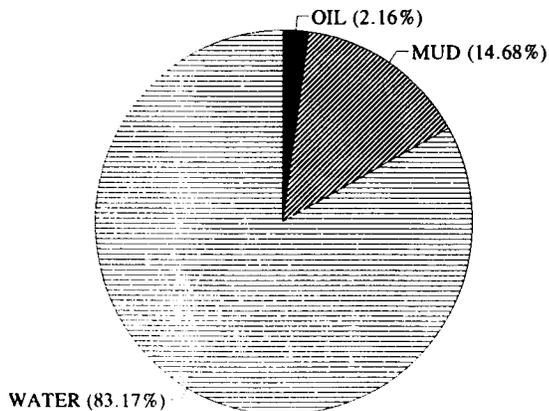
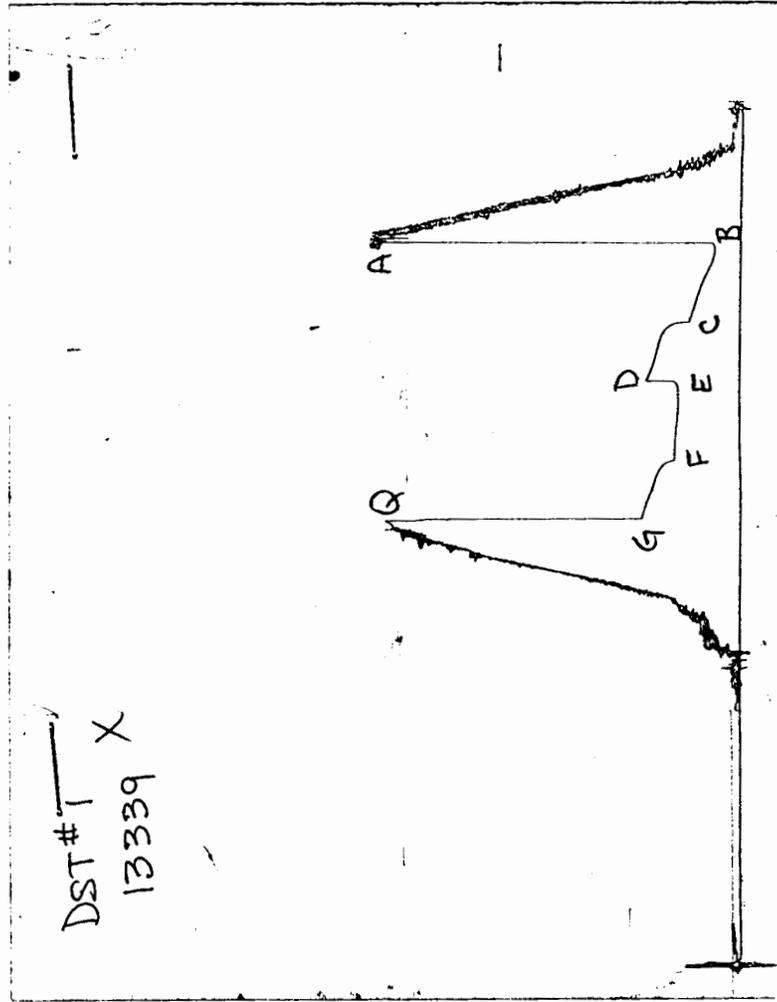


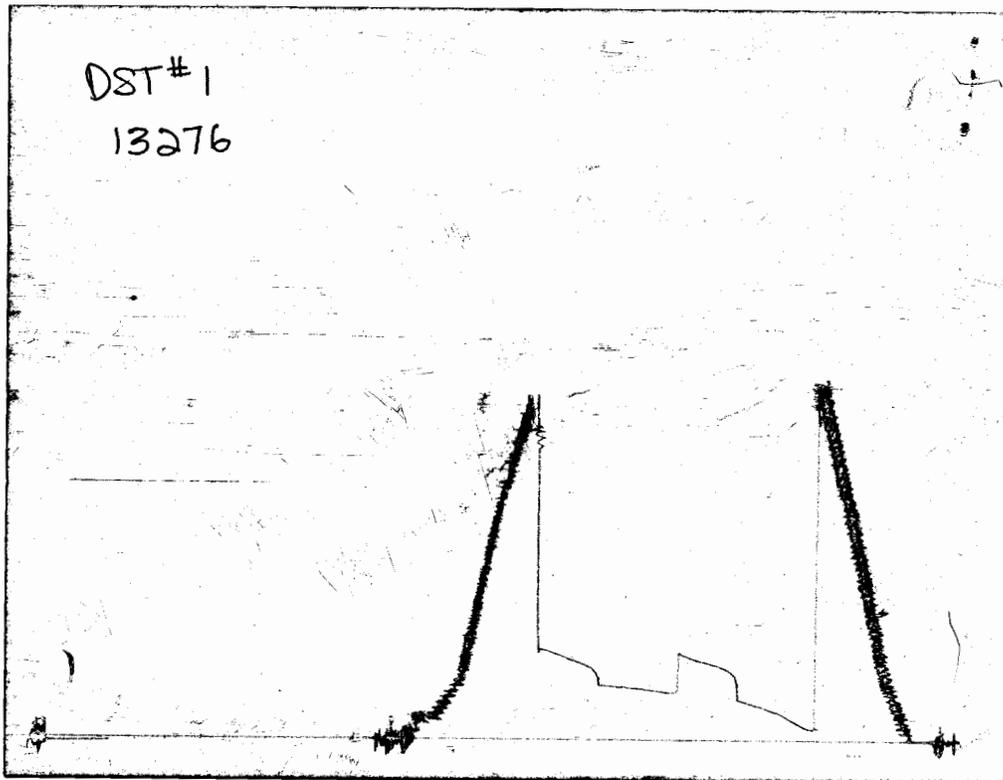
CHART PAGE



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

Well name Lucille
DST # 1
Recorder # 13339

1			
2	A		1921
3	B		133
4	C		2166
5	D		509
6	E		320
7	F		351
8	G		527
9	H		1858
10			
11			
12			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9271

Well Name & No. Lucille #3 Test No. 1 Date 7-19-96
 Company Hess Oil Company Zone Tested Lans-
 Address P.O. Box 1009 McPherson, KS. 67460 Elevation 2319 KB 2314 GL
 Co. Rep / Geo. Jamie Hess Cont. Murfin #3 Est. Ft. of Pay Por. %
 Location: Sec. 26 Twp. 11^S Rge. 21^W Co. Trego State KS.
 No. of Copies Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 3605 - 3700 Initial Str Wt./Lbs. 63,000 Unseated Str Wt./Lbs. 70,000
 Anchor Length 95' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 74,000
 Top Packer Depth 3605 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3605 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3700 Drill Collar — 2.25 Ft. Run 4 1/2" XH 500'
 Mud Wt. 8.9 LCM Vis. 46 WL 15.2 Drill Pipe Size 4 1/2" XH Ft. Run 3166'
 Blow Description IF: Weak surface blow slowly built to btm in 52 mins
ISI: Bled off blow - no return
FF: Weak surface return staying steady @ 1/2" throughout
FSI: No blow

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP
Rec. <u>5'</u> Feet Of <u>Free Oil</u>			
Rec. <u> </u> Feet Of <u> </u>			
Rec. <u>555'</u> Feet Of <u>Muddy Water</u>			
Rec. <u> </u> Feet Of <u> </u>			
Rec. <u> </u> Feet Of <u> </u>			

BHT 123° °F Gravity 38 °API D@ 70° °F Corrected Gravity 37 °API
 RW 10 @ 74° °F Chlorides 75,000 ppm Recovery Chlorides 3,500 ppm System

(A) Initial Hydrostatic Mud 1922 PSI Recorder No. 13339 T-Started 0100
 (B) First Initial Flow Pressure 124 PSI @ (depth) 3620 T-Open 0246
 (C) First Final Flow Pressure 249 PSI Recorder No. 13376 T-Pulled 0616
 (D) Initial Shut-in Pressure 499 PSI @ (depth) 3695 T-Out 0800
 (E) Second Initial Flow Pressure 311 PSI Recorder No.
 (F) Second Final Flow Pressure 332 PSI @ (depth)
 (G) Final Shut-in Pressure 519 PSI Initial Opening 60 Test 600
 (H) Final Hydrostatic Mud 1862 PSI Initial Shut-in 45 Jars

Final Flow 60 Safety Joint
 Final Shut-in 45 Straddle
 Circ. Sub X N/C
 Sampler
 Extra Packer
 Elect. Rec.
 Other
 TOTAL PRICE \$ 600

Approved By Jamie Hess
 Our Representative Rod Steinbrink

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.

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company
 WELL NAME: Lucille #3
 LOCATION : 26-11S-21W, Trego Cty KS
 INTERVAL : 3740.00 To 3810.00 ft

DATE 07/19/96
 KB 2319.00 ft
 GR 2314.00 ft
 TD 3810.00 ft

TICKET NO: 9272
 FORMATION: Lansing "K"
 DST #2
 TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	13276			PF Fr. 2015 to 2045 hr
SI 30	Range(Psi)	4000.0	4000.0	4000.0	0.0	0.0	IS Fr. 2045 to 2115 hr
SF 0	Clock(hrs)	12	12	12			SF Fr. to hr
FS 0	Depth(ft)	3760.0	3760.0	3805.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1882.0	1879.0	0.0	0.0	0.0	T STARTED 1900 hr
B. First Flow	83.0	87.0	0.0	0.0	0.0	T ON BOTM 2013 hr
B1. Final Flow	83.0	87.0	0.0	0.0	0.0	T OPEN 2015 hr
C. In Shut-in	145.0	141.0	0.0	0.0	0.0	T PULLED 2115 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 2245 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	1872.0	1870.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 74000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 68000.00 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 440.00 ft
						D.P. Length 3287.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
 5.00 ft of Drilling mud w/ show of oil in tool

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

BLOW DESCRIPTION

Initial Flow -
 Weak .25" blow decreased and died in
 20 minutes

Initial Shutin -
 No blow

Final Flow -
 Tool out of hole at company orders

SAMPLES:

SENT TO:

MUD DATA-----

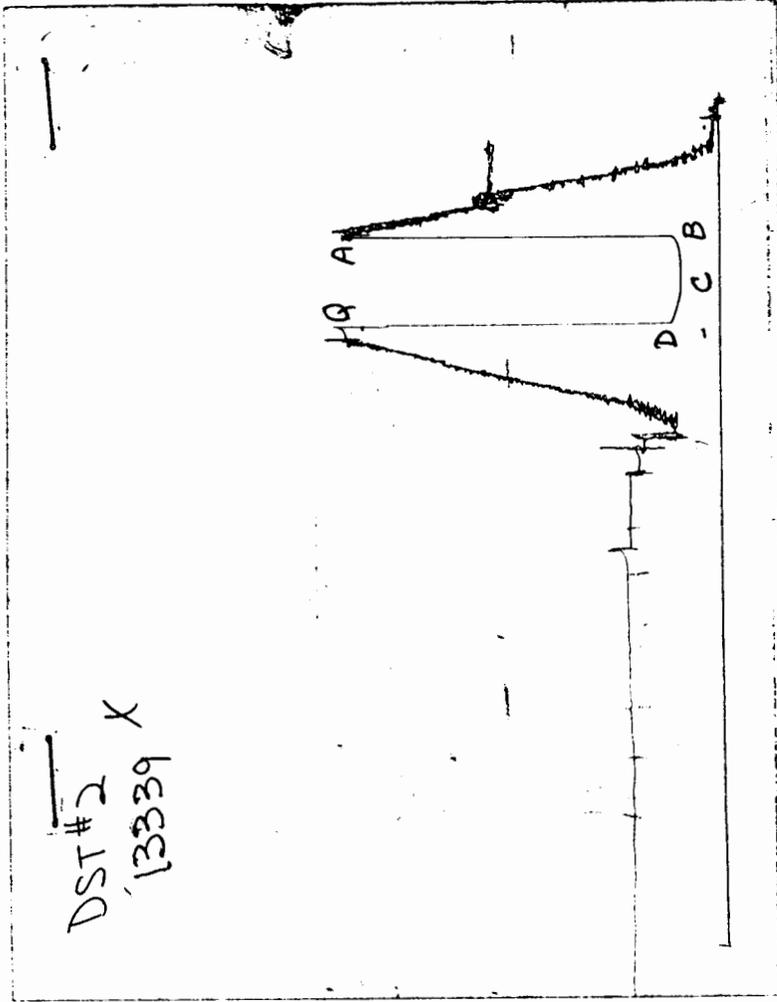
Mud Type	Chemical
Weight	9.30 lb/c
Vis.	50.00 S/L
W.L.	12.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 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 Rod Steinbrink
 Co. Rep. Jamie Hess
 Contr. Murfin
 Rig # 3
 Unit #
 Pump T.

Test Successful: Y

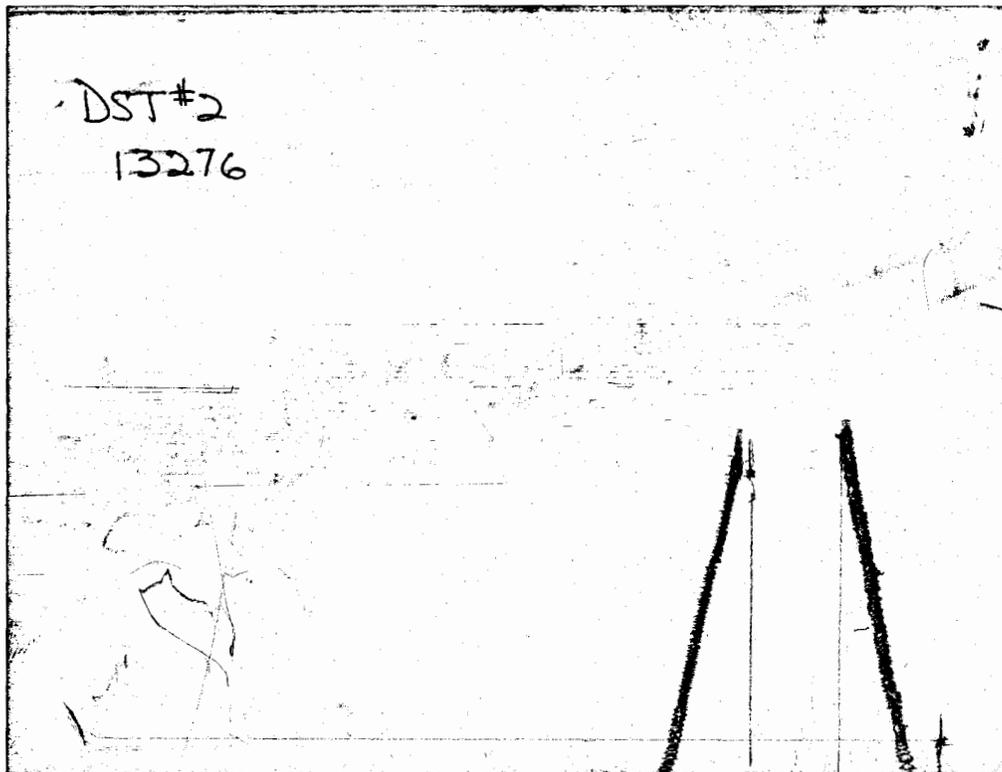
CHART PAGE



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

Well name Lucille
DST # 2
Recorder # 13339

A		1909	1879
B		87	
C		87	
D		141	
E			
F			
G			
H		1873	1870
0			
1			
2			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9272

Well Name & No. Lucille #3 Test No. 2 Date 7-19-96
 Company Hess Oil Company Zone Tested Lans 'K'
 Address P.O. Box 1009 McPherson, KS. 67460 Elevation 2319 KB 2314 GL
 Co. Rep / Geo. Jamie Hess Cont. Murfin #3 Est. Ft. of Pay Por. %
 Location: Sec. 26 Twp. 11^S Rge. 21^W Co. Trego State KS
 No. of Copies Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 3740 - 3810 Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 74,680,000
 Anchor Length 70' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 74,000
 Top Packer Depth 3735 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3740 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3810 Drill Collar — 2.25 Ft. Run 4 1/2" XH 440'
 Mud Wt. 9.3 LCM Vis. 50 WL 12.8 Drill Pipe Size 4 1/2" XH Ft. Run 3237'
 Blow Description IF: Weak 1/4" blow decreased and died in 20 mins.
ISI: No blow.
FF: TOH @ Co Orders

Recovery — Total Feet 5' Ft. in DC 5' Ft. in WP Ft. in DP
 Rec. Feet Of %gas %oil %water %mud
 Rec. 5' Feet Of Drlg. Mud %gas %oil %water %mud
 Rec. Feet Of w/Oil Show in Tool %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 125° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides ~~5,500~~ 4,400 ppm System
 (A) Initial Hydrostatic Mud 1882 PSI Recorder No. 13339 T-Started 1900
 (B) First Initial Flow Pressure 83 PSI @ (depth) 3760 T-Open 2015
 (C) First Final Flow Pressure 83 PSI Recorder No. 13276 T-Pulled ~~2015~~ 2115
 (D) Initial Shut-in Pressure 145 PSI @ (depth) 3805 T-Out 2245
 (E) Second Initial Flow Pressure PSI Recorder No.
 (F) Second Final Flow Pressure PSI @ (depth)
 (G) Final Shut-in Pressure PSI Initial Opening 30 Test 600
 (H) Final Hydrostatic Mud 1872 PSI Initial Shut-in 30 Jars

Final Flow Safety Joint
 Final Shut-in Straddle
 Circ. Sub X N/C
 Sampler
 Extra Packer
 Elect. Rec.
 Other
 TOTAL PRICE \$ 600

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 Red Steinbrink

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company
 WELL NAME: Lucille #3
 LOCATION : 26-11S-21W, Trego Cty KS
 INTERVAL : 3890.00 To 3914.00 ft

DATE 07/20/96
 KB 2319.00 ft
 GR 2314.00 ft
 TD 3914.00 ft

TICKET NO: 9273
 FORMATION: Arbuckle
 TEST TYPE: CONV

DST #3

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 60 Rec.	13339	13339	13276			PF Fr. 1027 to 1127 hr
SI 45 Range(Psi)	4000.0	4000.0	4000.0	0.0	0.0	IS Fr. 1127 to 1212 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 1212 to 1312 hr
FS 45 Depth(ft)	3909.0	3909.0	3904.0	0.0	0.0	FS Fr. 1312 to 1357 hr

	Field	1	2	3	4	
A. Init Hydro	1972.0	1983.0	0.0	0.0	0.0	T STARTED 0845 hr
B. First Flow	41.0	40.0	0.0	0.0	0.0	T ON BOTM 1025 hr
B1. Final Flow	52.0	52.0	0.0	0.0	0.0	T OPEN 1027 hr
C. In Shut-in	509.0	505.0	0.0	0.0	0.0	T PULLED 1357 hr
D. Init Flow	72.0	83.0	0.0	0.0	0.0	T OUT 1545 hr
E. Final Flow	93.0	89.0	0.0	0.0	0.0	
F. Fl Shut-in	478.0	489.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1942.0	1945.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 78000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 68000.00 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 440.00 ft
						D.P. Length 3439.00 ft

RECOVERY

Tot Fluid 200.00 ft of 200.00 ft in DC and 0.00 ft in DP
 140.00 ft of Slightly gassy oil - 5% gas, 95% oil
 60.00 ft of Gassy oil cut mud - 15% gas, 5% oil, 80% mud

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	50.00 S/L
W.L.	12.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 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	Rod Steinbrink
Co. Rep.	Jamie Hess
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SALINITY 0.00 P.P.M. A.P.I. Gravity 35.20

BLOW DESCRIPTION

Initial Flow -
 Surface blow slowly built to 3"

Initial Shutin -
 No return blow

Final Flow -
 Surface return, .25" blow
 throughout

SAMPLES:

SENT TO:

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

DST 3

TICKET 9273

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	140	5	7	95	133	0	0	0	0
2	60	15	9	5	3	0	0	80	48
3			0		0	0	0		0
4			0		0	0	0		0
5			0		0	0	0		0
6			0		0	0	0		0
TOTAL	200		16		136		0		48

BBL OIL =	0.66504	*	HRS OPEN	=	BBL/DAY
BBL WATER =	0	*	2	=	15.961
BBL MUD =	0.23472			=	0
BBL GAS =	0.07824				

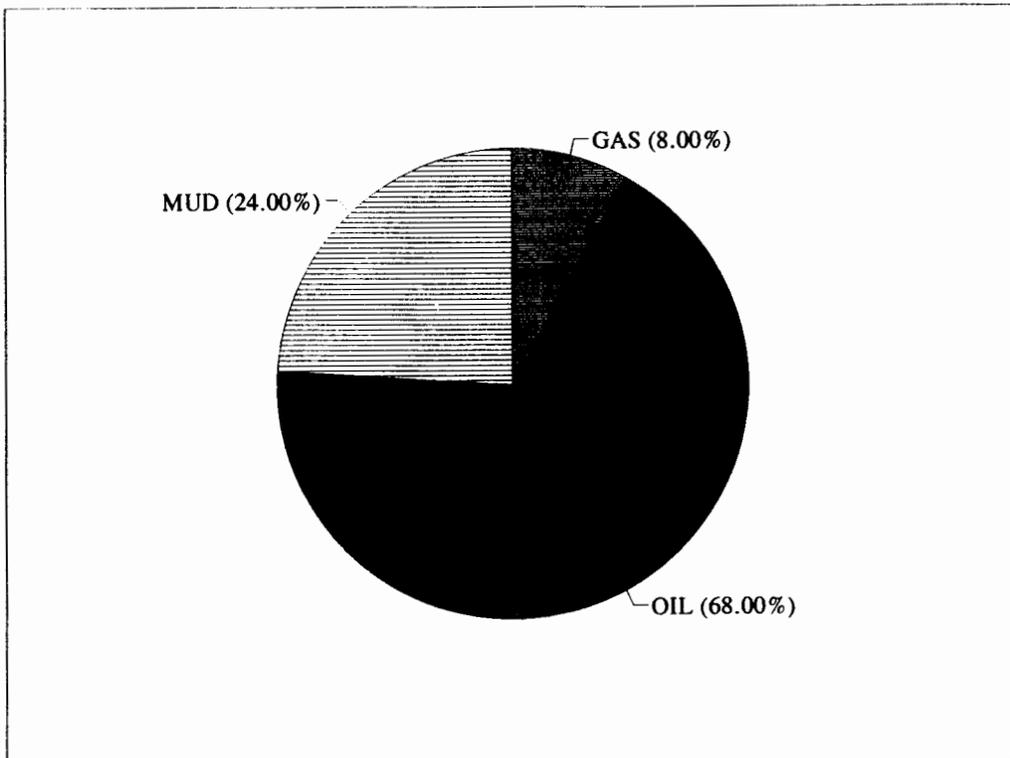
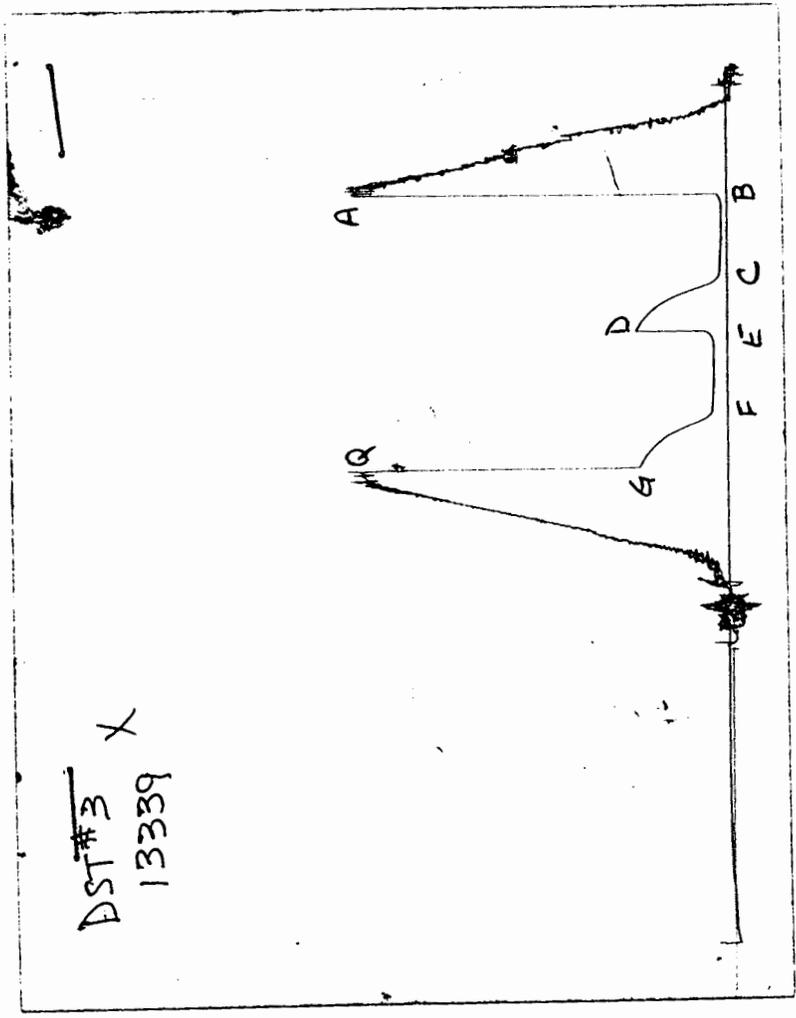


CHART PAGE

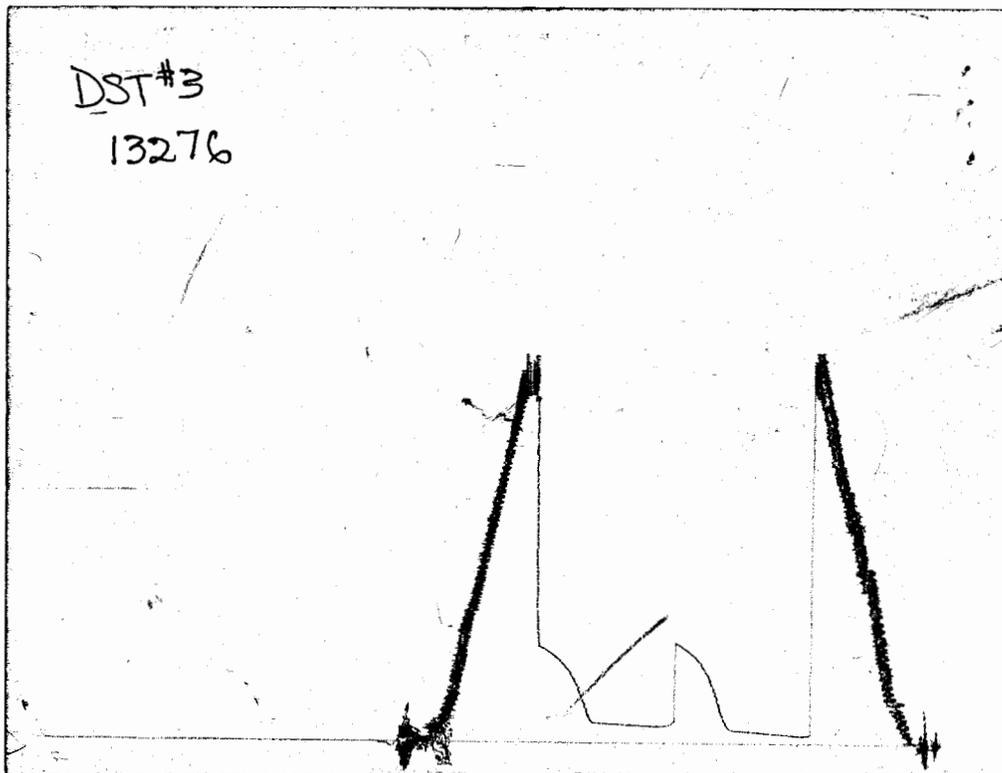
DST #3 X
13339



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

Well name Lucille
DST # 3
Recorder # 13339

A		1983	
B		40	
C		52	
D		505	
E		83	
F		89	
G		489	
H		1945	
0			
1			
2			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 9273

Well Name & No.	<u>Lucille #3</u>	Test No.	<u>3</u>	Date	<u>7-20-96</u>
Company	<u>Hess Oil Company</u>	Zone Tested	<u>Arbuckle</u>		
Address	<u>P.O. Box 1009 McPherson, KS 67460</u>	Elevation	<u>2319</u>	KB	<u>2314</u> GL
Co. Rep / Geo.	<u>Jamie Hess</u>	Cont.	<u>Murfin #3</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>26</u>	Twp.	<u>11^S</u>	Rge.	<u>21^W</u> Co. <u>Trego</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>3890 - 3914</u>	Initial Str Wt./Lbs.	<u>68,000</u>	Unseated Str Wt./Lbs.	<u>88,000</u>
Anchor Length	<u>24'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>78,000</u>
Top Packer Depth	<u>3885</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Bottom Packer Depth	<u>3890</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u> </u>	<u> </u>	<u> </u>
Total Depth	<u>3914</u>	Drill Collar — 2.25 Ft. Run	<u>4 1/2" XH</u>	<u>440'</u>	<u> </u>
Mud Wt. <u>9.3</u> LCM <u> </u> Vis. <u>50</u> WL <u>128</u>		Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>3439'</u>
Blow Description	<u>IF: Surface blow slowly built to 3"</u>				
	<u>ISI: No return blow.</u>				
	<u>FF: Surface return 1/4" blow steady throughout.</u>				

Recovery — Total Feet	<u>200'</u>	Ft. in DC	<u>200'</u>	Ft. in WP	<u> </u>	Ft. in DP	<u> </u>				
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>	%water	<u> </u>	%mud	<u> </u>
Rec.	<u>140'</u>	Feet Of	<u>SGD</u>	<u>5</u> %gas	<u>95</u> %oil	<u> </u> %water	<u> </u> %mud	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	<u> </u> %gas	<u> </u> %oil	<u> </u> %water	<u> </u> %mud	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec.	<u>60'</u>	Feet Of	<u>GDCM</u>	<u>15</u> %gas	<u>5</u> %oil	<u> </u> %water	<u>80</u> %mud	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	<u> </u> %gas	<u> </u> %oil	<u> </u> %water	<u> </u> %mud	<u> </u>	<u> </u>	<u> </u>	<u> </u>
BHT	<u>126°</u>	°F Gravity	<u>38</u>	°API D@	<u>92°</u>	°F Corrected Gravity	<u>35.2</u>	°API	<u> </u>	<u> </u>	<u> </u>
RW	<u> </u>	@	<u> </u>	°F Chlorides	<u> </u>	ppm Recovery	<u>4,400</u>	Chlorides	<u> </u>	ppm System	<u> </u>
(A) Initial Hydrostatic Mud	<u>1972</u>	PSI	Recorder No.	<u>13276</u>	T-Started	<u>0845</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(B) First Initial Flow Pressure	<u>41</u>	PSI	@ (depth)	<u>3904</u>	T-Open	<u>1027</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(C) First Final Flow Pressure	<u>52</u>	PSI	Recorder No.	<u>13339</u>	T-Pulled	<u>1357</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(D) Initial Shut-in Pressure	<u>509</u>	PSI	@ (depth)	<u>3909</u>	T-Out	<u>1545</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(E) Second Initial Flow Pressure	<u>12</u>	PSI	Recorder No.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(F) Second Final Flow Pressure	<u>93</u>	PSI	@ (depth)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(G) Final Shut-in Pressure	<u>478</u>	PSI	Initial Opening	<u>60</u>	Test	<u>600</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(H) Final Hydrostatic Mud	<u>1942</u>	PSI	Initial Shut-in	<u>45</u>	Jars	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Final Flow	<u>60</u>	Safety Joint	<u> </u>
Final Shut-in	<u>45</u>	Straddle	<u> </u>
		Circ. Sub	<u>X</u> <u>N/C</u>
		Sampler	<u> </u>
		Extra Packer	<u> </u>
		Elect. Rec.	<u> </u>
		Other	<u> </u>
		TOTAL PRICE \$	<u>600</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 James L. Hess

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company
 WELL NAME: Lucille #3
 LOCATION : 26-11S-21W, Trego Cty KS
 INTERVAL : 3912.00 To 3924.00 ft

DATE 07/20/96
 KB 2319.00 ft
 GR 2314.00 ft
 TD 3924.00 ft

TICKET NO: 9274
 FORMATION: Arbuckle
 TEST TYPE: CONV

DST #4

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 60	Rec.	13339	13339	13276			PF Fr. 2256 to 2356 hr
SI 45	Range(Psi)	4000.0	4000.0	4000.0	0.0	0.0	IS Fr. 2356 to 0041 hr
SF 60	Clock(hrs)	12	12	12			SF Fr. 0041 to 0141 hr
FS 45	Depth(ft)	3919.0	3919.0	3914.0	0.0	0.0	FS Fr. 0141 to 0226 hr

	Field	1	2	3	4	
A. Init Hydro	2023.0	2049.0	0.0	0.0	0.0	T STARTED 2040 hr
B. First Flow	41.0	50.0	0.0	0.0	0.0	T ON BOTM 2254 hr
B1. Final Flow	52.0	62.0	0.0	0.0	0.0	T OPEN 2256 hr
C. In Shut-in	599.0	6903.0	0.0	0.0	0.0	T PULLED 0226 hr
D. Init Flow	62.0	81.0	0.0	0.0	0.0	T OUT 0400 hr
E. Final Flow	72.0	87.0	0.0	0.0	0.0	
F. Fl Shut-in	579.0	591.0	0.0	0.0	0.0	
G. Final Hydro	1972.0	1969.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	0.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	90000.00 lbs
Initial Str Wt	68000.00 lbs
Unseated Str Wt	68000.00 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	440.00 ft
D.P. Length	3468.00 ft

RECOVERY

Tot Fluid 150.00 ft of 150.00 ft in DC and 0.00 ft in DP
 30.00 ft of Slightly gassy oil - 5% gas, 95% oil
 90.00 ft of Slightly gassy water & mud cut oil -
 5% gas, 80% oil, 5% water, 10% mud
 30.00 ft of Oil & water cut mud -
 10% oil, 10% water, 80% mud

RW .20 @ 75 F

SALINITY 30000.00 P.P.M. A.P.I. Gravity 35.40

BLOW DESCRIPTION

Initial Flow -
 Weak .5" blow, steady throughout

Initial Shutin -
 No blow

Final Flow -
 Weak surface return in 10 min, steady throughout

Final Shutin -
 No blow

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/ct
Vis.	42.00 S/L
W.L.	13.20 in3
F.C.	0.00 in

Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 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	Rod Steinbrink
Co. Rep.	Jamie Hess
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SAMPLES:
 SENT TO:

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

DST 4

TICKET 9274

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	30	5	1.5	95	28.5		0		0
2	90	5	4.5	80	72	5	4.5	10	9
3	30		0	10	3	10	3	80	24
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	150		6		103.5		7.5		33

BBL OIL =	0.50612	*	HRS OPEN	2	=	BBL/DAY	12.1468
BBL WATER =	0.03668	*			=		0.8802
BBL MUD =	0.16137						
BBL GAS =	0.02934						

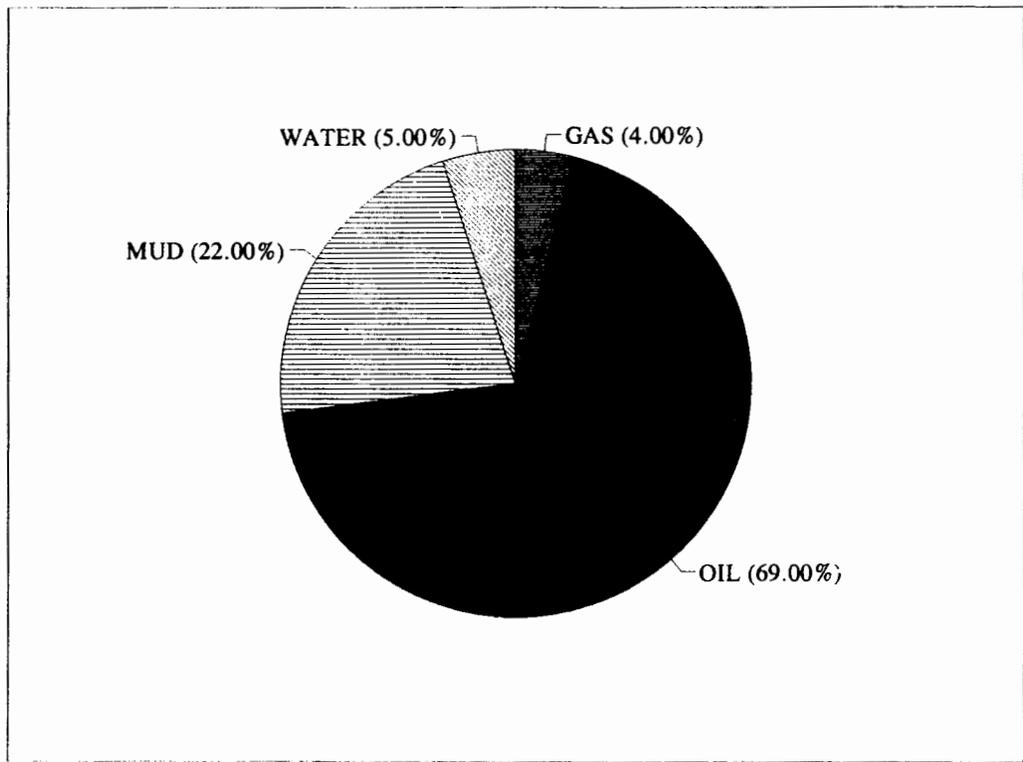
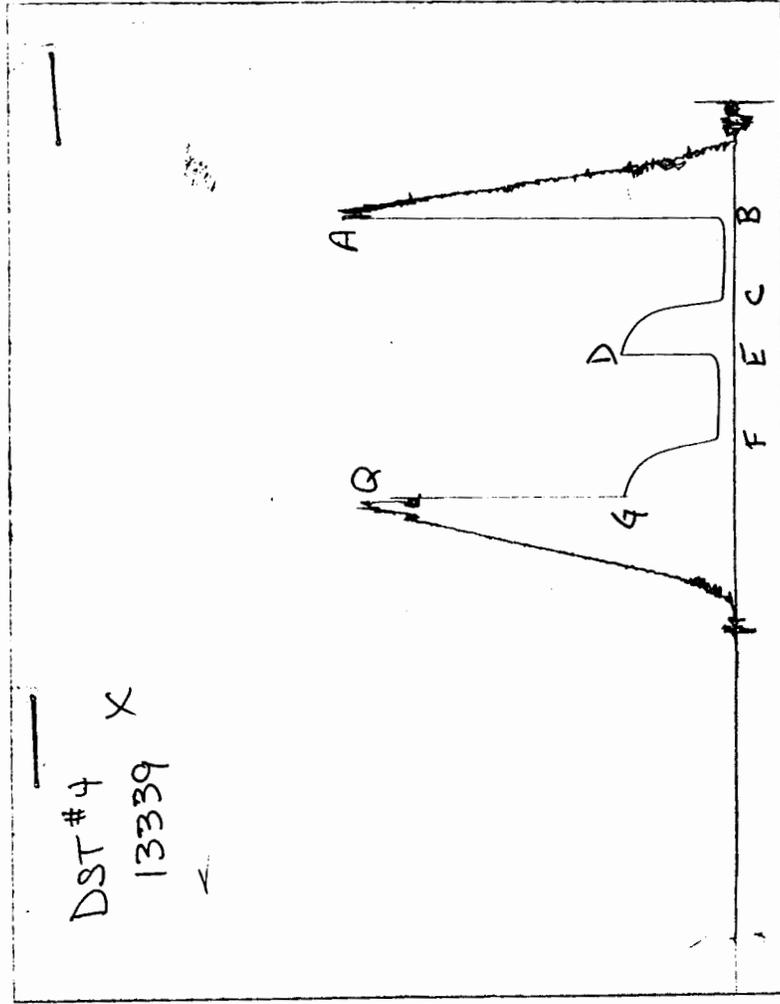


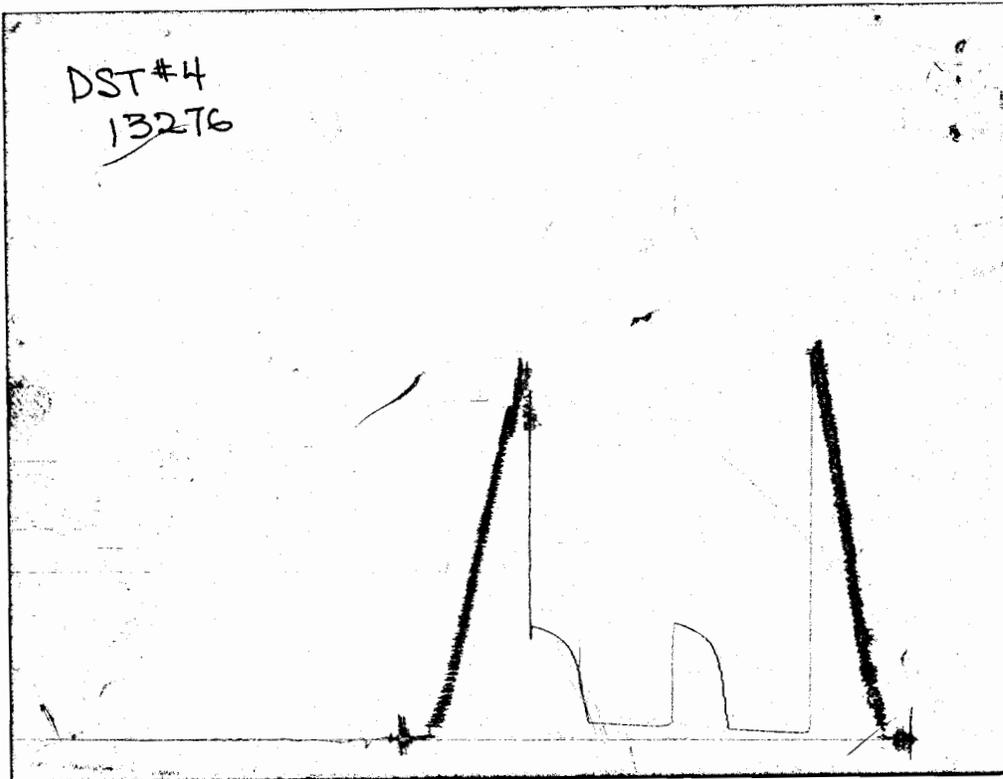
CHART PAGE



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

Well name Lucille
DST # 4
Recorder # 13339

A		2049	
B		50	
C		62	
D		603	
E		81	
F		87	
G		591	
H		19109	
0			
1			
2			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9274

Well Name & No.	<u>Lucille #3</u>	Test No.	<u>4</u>	Date	<u>7-20-96</u>		
Company	<u>Hess Oil Company</u>	Zone Tested	<u>Arbuckle</u>				
Address	<u>P.O. Box 1009 McPherson KS. 67460</u>	Elevation	<u>2319</u>	KB	<u>2314</u> GL		
Co. Rep / Geo.	<u>Jamie Hess</u>	Cont.	<u>Murfin #3</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %		
Location: Sec.	<u>26</u>	Twp.	<u>11^S</u>	Rge.	<u>21^W</u> Co. <u>Trego</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>3912 - 3924</u>	Initial Str Wt./Lbs.	<u>68,000</u>	Unseated Str Wt./Lbs.	<u>68,000</u>
Anchor Length	<u>12'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>90,000</u>
Top Packer Depth	<u>3907</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Bottom Packer Depth	<u>3912</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u> </u>		
Total Depth	<u>3924</u>	Drill Collar — 2.25 Ft. Run	<u>4 1/2" XH</u>	<u>440'</u>	
Mud Wt. <u>9.5</u> LCM <u> </u> Vis. <u>42</u> WL <u>13.2</u>		Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>3468</u>
Blow Description	<u>IF: Weak 1/2" blow steady throughout.</u>				
	<u>ISI: No blow.</u>				
	<u>FF: Weak surface return in 10 mins. steady throughout.</u>				
	<u>F&E: No blow.</u>				

Recovery — Total Feet	<u>150'</u>	Ft. in DC	<u>150'</u>	Ft. in WP	<u> </u>	Ft. in DP	<u> </u>
Rec.	<u>30'</u>	Feet Of	<u>SGD</u>	5 %gas	95 %oil	— %water	— %mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u>90'</u>	Feet Of	<u>SGWMCO</u>	5 %gas	80 %oil	5 %water	10 %mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u>30'</u>	Feet Of	<u>→ DWCM</u>	— %gas	10 %oil	10 %water	80 %mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
BHT	<u>126°</u>	°F Gravity	<u>36</u>	°API D@	<u>74°</u>	°F Corrected Gravity	<u>35.4</u> °API
RW	<u>-20</u>	@	<u>75°</u>	°F Chlorides	<u>30,000</u>	ppm Recovery Chlorides	<u>3,900</u> ppm System
(A) Initial Hydrostatic Mud	<u>2023</u>	PSI	Recorder No.	<u>13276</u>	T-Started	<u>2040</u>	
(B) First Initial Flow Pressure	<u>41</u>	PSI	@ (depth)	<u>3914</u>	T-Open	<u>2256</u>	
(C) First Final Flow Pressure	<u>52</u>	PSI	Recorder No.	<u>13339</u>	T-Pulled	<u>0126</u>	
(D) Initial Shut-in Pressure	<u>599</u>	PSI	@ (depth)	<u>3919</u>	T-Out	<u>0900</u>	
(E) Second Initial Flow Pressure	<u>62</u>	PSI	Recorder No.	<u> </u>			
(F) Second Final Flow Pressure	<u>72</u>	PSI	@ (depth)	<u> </u>			
(G) Final Shut-in Pressure	<u>579</u>	PSI	Initial Opening	<u>60</u>	Test	<u>600</u>	
(H) Final Hydrostatic Mud	<u>1972</u>	PSI	Initial Shut-in	<u>45</u>	Jars	<u> </u>	

Final Flow 60 Safety Joint

Final Shut-in 45 Straddle

Circ. Sub X N/C

Sampler

Extra Packer

Elect. Rec.

Other

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Approved By Jamie Hess

Our Representative Rod Steinbrink

TOTAL PRICE \$ 600

TRILOBITE TESTING L.L.C.

OPERATOR : Hess Oil Company
 WELL NAME: Lucille #3
 LOCATION : 26-11S-21W, Trego Cty KS
 INTERVAL : 3922.00 To 3934.00 ft

DATE 07/21/96
 KB 2319.00 ft TICKET NO: 9275 DST #5
 GR 2314.00 ft FORMATION: Arbuckle
 TD 3934.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	13276			PF Fr. 1003 to 1033 hr
SI 30 Range (Psi)	4000.0	4000.0	4000.0	0.0	0.0	IS Fr. 1033 to 1103 hr
SF 0 Clock (hrs)	12	12	12			SF Fr. to hr
FS 0 Depth (ft)	3929.0	3929.0	3924.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2023.0	2015.0	0.0	0.0	0.0	T STARTED 0830 hr
B. First Flow	52.0	48.0	0.0	0.0	0.0	T ON BOTM 1000 hr
Bl. Final Flow	52.0	48.0	0.0	0.0	0.0	T OPEN 1003 hr
C. In Shut-in	679.0	685.0	0.0	0.0	0.0	T PULLED 1103 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1230 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	1982.0	1973.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 0.00 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 440.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 15.00 ft of 15.00 ft in DC and 0.00 ft in DP
 15.00 ft of Oil spotted mud

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

BLOW DESCRIPTION

Initial Flow -
 Weak surface blow died in 12 min

Initial Shutin -
 No blow

Final Flow -
 Tool out of hole @ company orders

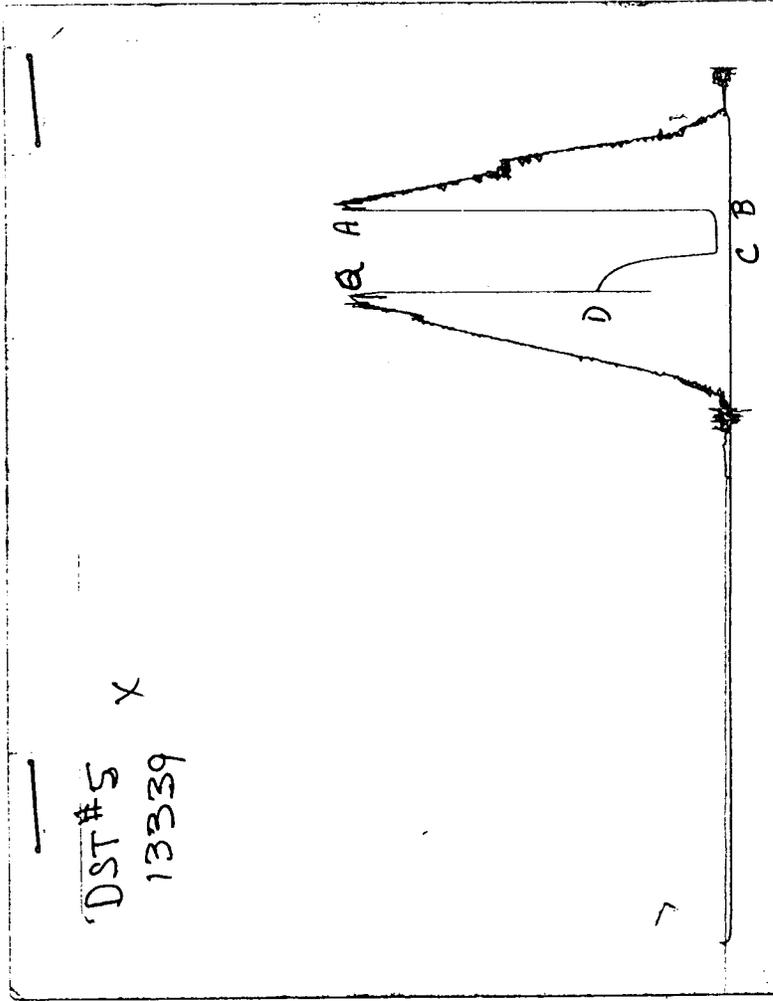
MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/cf
Vis.	42.00 S/L
W.L.	13.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 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	Rod Steinbrink
Co. Rep.	Jamie Hess
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SAMPLES:
 SENT TO:

Test Successful: Y

CHART PAGE



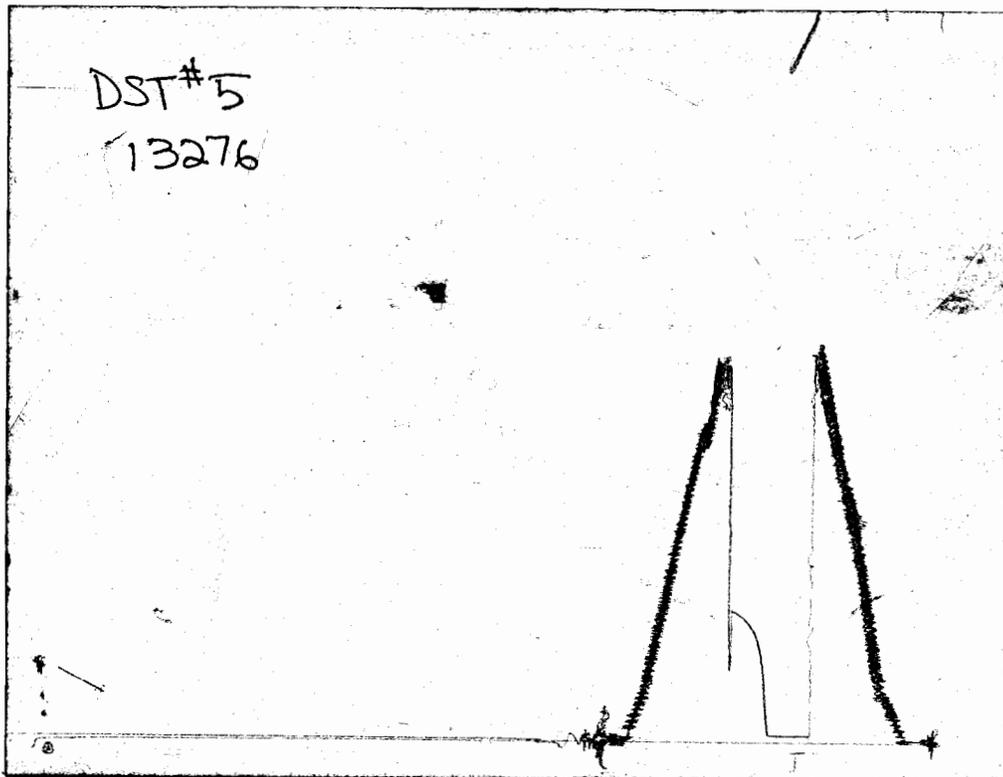
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Well name Lucille

DST # 5

Recorder # 13339

A		2015	
B		48	
C		48	
D		685	
E			
F			
G			
H		1973	
0			
1			
2			



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9275

Well Name & No.	Lucille #3	Test No.	5	Date	7-21-96
Company	Hess Oil Company	Zone Tested	Arbuckle		
Address	PO Box 1009 McPherson, KS. 67460	Elevation	2319	KB	2314 GL
Co. Rep / Geo.	Jamie Hess	Cont.	Murfin #3	Est. Ft. of Pay	Por. %
Location: Sec.	26	Twp.	11 ^S	Rge.	21 ^W Co. Trego State KS
No. of Copies	Distribution Sheet (Y, N)	Turnkey (Y, N)	Evaluation (Y, N)		

Interval Tested	3922 - 3934	Initial Str Wt./Lbs.	68,000	Unseated Str Wt./Lbs.	
Anchor Length	12'	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	
Top Packer Depth	3917	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Bottom Packer Depth	3922	Wt. Pipe I.D. — 2.7 Ft. Run			
Total Depth	3934	Drill Collar — 2.25 Ft. Run	4 1/2" XH	440'	
Mud Wt.	9.5 LCM	Vis.	42 WL 13.2	Drill Pipe Size	4 1/2" XH Ft. Run 44
Blow Description	IF: Weak surface blow died in 12 mins. ISI: No blow FF: TOH @ Co. Orders				

Recovery — Total Feet	15'	Ft. in DC	15'	Ft. in WP	—	Ft. in DP	—
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	15'	Feet Of	Oil Spotted Mud	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		

BHT 125° °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 3,900 ppm System

(A) Initial Hydrostatic Mud	2023	PSI	Recorder No.	13276	T-Started	0830
(B) First Initial Flow Pressure	52	PSI	@ (depth)	3924	T-Open	1003
(C) First Final Flow Pressure	52	PSI	Recorder No.	13339	T-Pulled	1103
(D) Initial Shut-in Pressure	679	PSI	@ (depth)	3929	T-Out	1230
(E) Second Initial Flow Pressure	—	PSI	Recorder No.	—		
(F) Second Final Flow Pressure	—	PSI	@ (depth)	—		
(G) Final Shut-in Pressure	—	PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1982	PSI	Initial Shut-in	30	Jars	

Final Flow	—	Safety Joint	
Final Shut-in	—	Straddle	
		Circ. Sub	X N/C
		Sampler	
		Extra Packer	
		Elect. Rec.	
		Other	
		TOTAL PRICE \$	600

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Approved By _____

Our Representative Rod Steinbrink