

15-039-20915

TRILOBITE TESTING L.L.C.

14-25-27w

OPERATOR : Dark Horse Oil Co.

DATE 9-9-00

WELL NAME: Long Ranch #3

KB 2618.00 ft

TICKET NO: 13391

DST #1

LOCATION : 14-2-27 Decatur co KS

GR 2613.00 ft

FORMATION: Lans "A"-Pollnow

INTERVAL : 3479.00 To 3520.00 ft

TD 3520.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	11058		2346			PF Fr. 2355 to 0003 hr
SI 0 Range(Psi)	4475.0	0.0	4995.0	0.0	0.0	IS Fr. to hr
SF 0 Clock(hrs)	12		12			SF Fr. to hr
FS 0 Depth(ft)	2346.0	0.0	3517.0	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 2135 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 2350 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 2355 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0003 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0100 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. 4000.00 lbs
Inside/Outside						Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 49000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 497.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 260.00 ft of 260.00 ft in DC and 0.00 ft in DP
 260.00 ft of Drilling 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
 0.00 ft of

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

BLOW DESCRIPTION

Packer failure @ open- Pull tool

MUD DATA-----

Mud Type	Chemical
Weight	8.70 lb/c
Vis.	43.00 S/L
W.L.	7.60 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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	Shane McBride
Co. Rep.	Paul Gunzelman
Contr.	Murfin
Rig #	3

Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: N

13391 DST #1 LongRanch #3 Dark Horse Oil

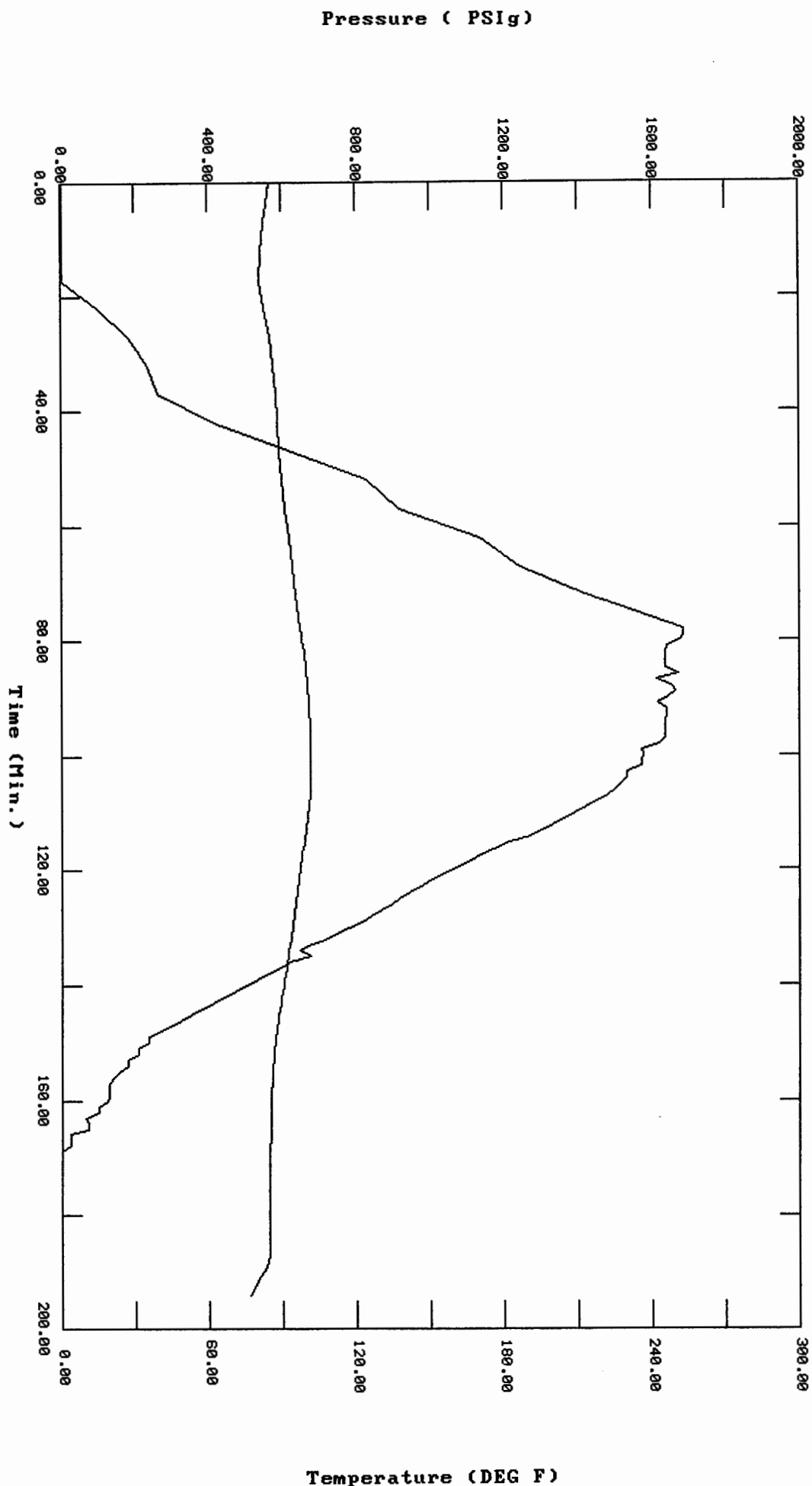
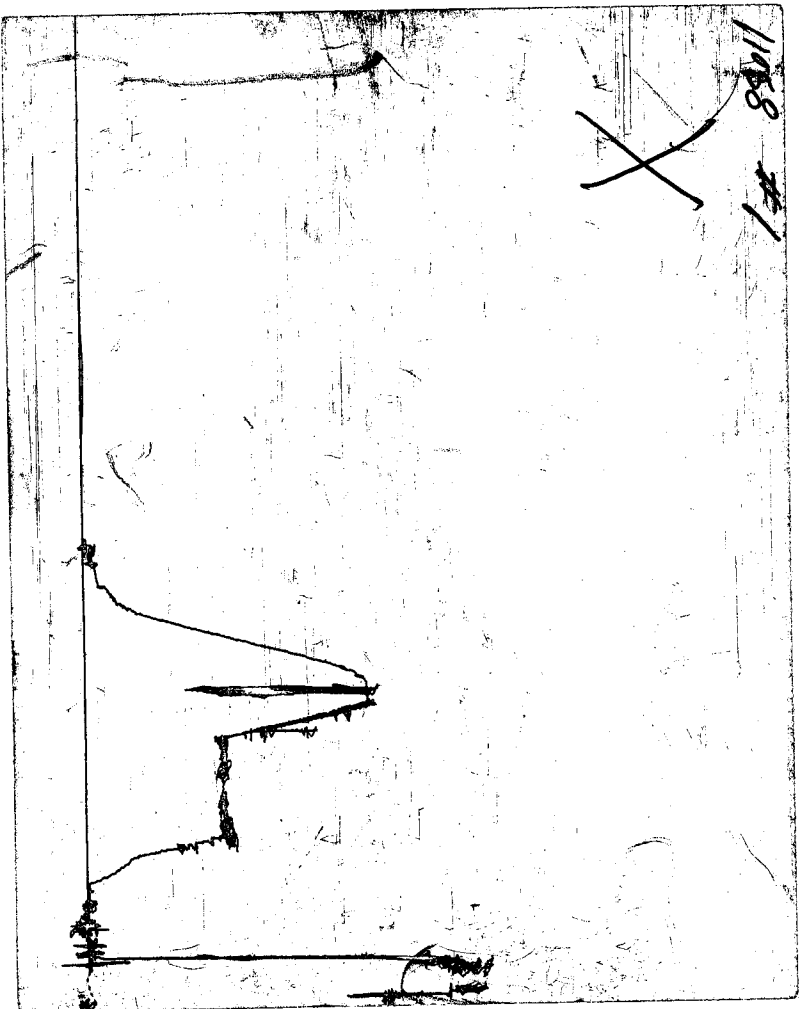


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13391

Test Ticket

Well Name & No.	<u>Long Knech #3</u>	Test No.	<u>#1</u>	Date	<u>9-9-00</u>
Company	<u>Dark Horse Oil Co</u>	Zone Tested	<u>Lans 18" - Rollman</u>		
Address	<u>12543 N Hwy 83 - Ste 228 Parker Co, 80134</u>	Elevation	<u>2618</u>	KB	<u>2613</u> GL
Co. Rep / Geo.	<u>Paul Gurrelman</u>	Cont.	<u>Mark #3</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>14</u>	Twp.	<u>2</u>	Rge.	<u>27</u> Co. <u>DeCATur</u> State <u>KS</u>
No. of Copies	<u>None</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>3479'</u>	<u>3520'</u>	Initial Str Wt./Lbs.	<u>48,000</u>	Unseated Str Wt./Lbs.	<u>49,000</u>
Anchor Length	<u>41'</u>		Wt. Set Lbs.	<u>24,000</u>	Wt. Pulled Loose/Lbs.	<u>60,000</u>
Top Packer Depth	<u>3474'</u>		Tool Weight	<u>4,000</u>		
Bottom Packer Depth	<u>3479'</u>		Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>3520'</u>		Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>497' x 11</u>
Mud Wt.	<u>8.7</u> LCM <u>Tr</u> Vis. <u>43</u> WL <u>2.6</u>		Drill Pipe Size	<u>4 1/2 x 14</u>	Ft. Run	<u> </u>
Blow Description	<u>packer failure @ open - pull tool.</u>					

Recovery — Total Feet	<u>260'</u>	GIP	<u> </u>	Ft. in DC	<u>260'</u>	Ft. in DP	<u> </u>
Rec.	<u>260'</u>	Feet Of	<u>Drilling Mud</u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
BHT	<u> </u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>
RW	<u> </u>	@	<u> </u>	°F Chlorides	<u> </u>	ppm Recovery	<u> </u>
				Chlorides	<u>250</u>	ppm System	<u> </u>

(A) Initial Hydrostatic Mud	<u>AK-1 1634</u>	<u>Alpine 1684</u>	PSI Recorder No.	<u>2346</u>	T-On Location	<u>20:50 p.m.</u>
(B) First Initial Flow Pressure			PSI (depth)	<u>3483'</u>	T-Started	<u>21:35 p.m.</u>
(C) First Final Flow Pressure			PSI Recorder No.	<u>11058</u>	T-Open	<u>23:55 p.m.</u>
(D) Initial Shut-In Pressure			PSI (depth)	<u>3517'</u>	T-Pulled	<u>12:03 a.m.</u>
(E) Second Initial Flow Pressure			PSI Recorder No.	<u> </u>	T-Out	<u>01:00</u>
(F) Second Final Flow Pressure			PSI (depth)	<u> </u>	T-Off Location	<u>Stayed on Loc.</u>
(G) Final Shut-in Pressure			PSI Initial Opening	<u> </u>	Test x	<u>450</u>
(Q) Final Hydrostatic Mud	<u>1622</u>	<u>1641</u>	PSI Initial Shut-in	<u> </u>	Jars x	<u>200</u>
			Final Flow	<u> </u>	Safety Joint x	<u>50</u>
			Final Shut-in	<u> </u>	Straddle	<u> </u>
					Circ. Sub	<u>x N/C</u>
					Sampler	<u> </u>
					Extra Packer	<u> </u>
					Elec. Rec. x	<u>150</u>
					Mileage	<u>122 miles Hwy</u>
					Other	<u> </u>
					TOTAL PRICE \$	<u>972</u>

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Approved By Paul Gurrelman

Our Representative Shawn B...

TRILOBITE TESTING L.L.C.

OPERATOR : Darkhorse Oil Comp.

DATE 9-10-00

WELL NAME: #3 Long Ranch

KB 2618.00 ft

TICKET NO: 13392 DST #2

LOCATION : 14-2s-27w Decatur co KS

GR 2613.00 ft

FORMATION: Lans A Pollnow

INTERVAL : 3442.00 To 3520.00 ft

TD 3520.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2346			PF Fr. 0235 to 0305 hr
SI 60 Range(Psi)	4475.0	4475.0	4995.0	0.0	0.0	IS Fr. 0305 to 0405 hr
SF 45 Clock(hrs)	12	12	alpin			SF Fr. 0405 to 0450 hr
FS 90 Depth(ft)	3517.0	3517.0	3452.0	0.0	0.0	FS Fr. 0450 to 0620 hr

	Field	1	2	3	4	
A. Init Hydro	1872.0	1903.0	1755.0	0.0	0.0	T STARTED 0110 hr
B. First Flow	111.0	134.0	51.0	0.0	0.0	T ON BOTM 0232 hr
B1. Final Flow	244.0	265.0	267.0	0.0	0.0	T OPEN 0235 hr
C. In Shut-in	1053.0	1058.0	1054.0	0.0	0.0	T PULLED 0620 hr
D. Init Flow	322.0	336.0	289.0	0.0	0.0	T OUT 0855 hr
E. Final Flow	400.0	400.0	397.0	0.0	0.0	
F. Fl Shut-in	1053.0	1046.0	1050.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1838.0	1861.0	1611.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 51000.00 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 497.00 ft
						D.P. Length 2985.00 ft

RECOVERY

Tot Fluid 1047.00 ft of 497.00 ft in DC and 550.00 ft in DP

380.00 ft of Gas in pipe

320.00 ft of Clean gassy oil 20% gas 80% oil

230.00 ft of Slightly mud cut gassy oil

0.00 ft of 10% gas 70% oil 20% mud

437.00 ft of Slightly mud cut gassy oil

0.00 ft of 10% gas 75% oil 15% mud

60.00 ft of Mud cut gassy oil

0.00 ft of 10% gas 50% oil 40% mud

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

BLOW DESCRIPTION

Initial Flow:

Bottom of bucket in 4 1/2 minutes.

Initial Shut-In:

Bled off for 2 minutes. Return in 1 minute. Built to 7".

Final Flow:

7" at open bottom of bucket in 1 minute.

Final Shut-In:

Bled off for 2 minutes. Return in 1 minute built to bottom of bucket.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.70 lb/c
Vis.	43.00 S/L
W.L.	7.60 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
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Paul
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: #3 Long Ranch

LOCATION : 14-2s-27w Decatur co KS

TICKET No. 13392 D.S.T. No. 2 DATE 9-10-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 105

D.C. ABOVE TOOLS.Stands8 Single 1 Total 497

D.P. ABOVE TOOLS.Stands49 Single Total 2923

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3525

TOTAL DEPTH 3520

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

P.O. SUB	
C.O. SUB 1'	3414
S.I. TOOL 5'	3420
HMV 5'	3425
JARS 5'	3430
SAFETY JOINT 2'	3432
PACKER top	3437
PACKER bottom	3442
DEPTH 3442	
1'	3443
ANCHOR 8' perf	3451
1' c.o.	3452
alpine recorder	3452
62' drillpipe	3514
1' c.o.	3415
ak-1 recorder	3415
BULLNOSE 5' bullplug	3420
T.D.	3420

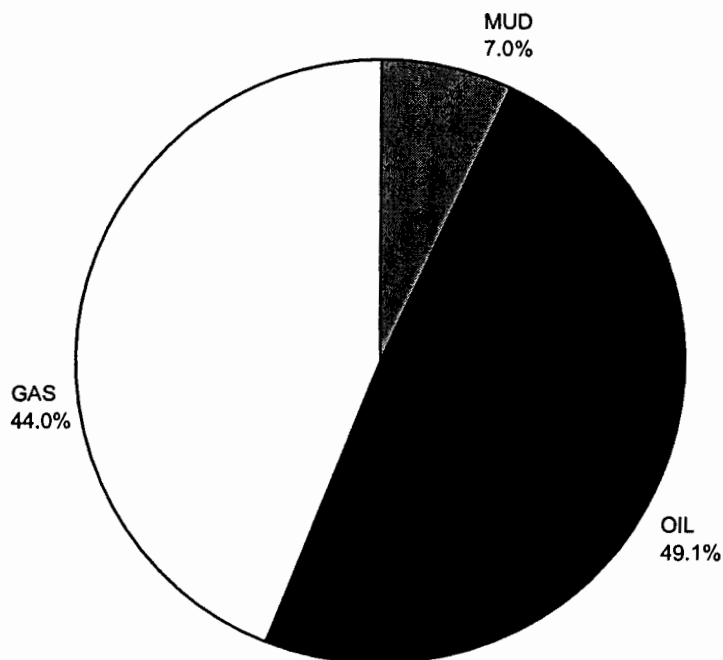
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 13392

SAMPLE #		TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL	1	380	100	380	0	0	0	0	0	0
PIPE	2	320	20	64	80	256	0	0	0	0
	3	230	10	23	70	161	0	0	20	46
	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	437	10	43.7	75	327.75	0	0	15	65.55
COLLARS	2	60	10	6	50	30	0	0	40	24
	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		1427	0	516.7	0	774.75	0	0	0	135.55

BBL OIL=	7.6791375	*	HRS OPEN	1.25	=	BBL/DAY	147.43944
BBL WATER=	0	*			=		0
BBL MUD=	1.0920195						
BBL GAS =	6.883773						

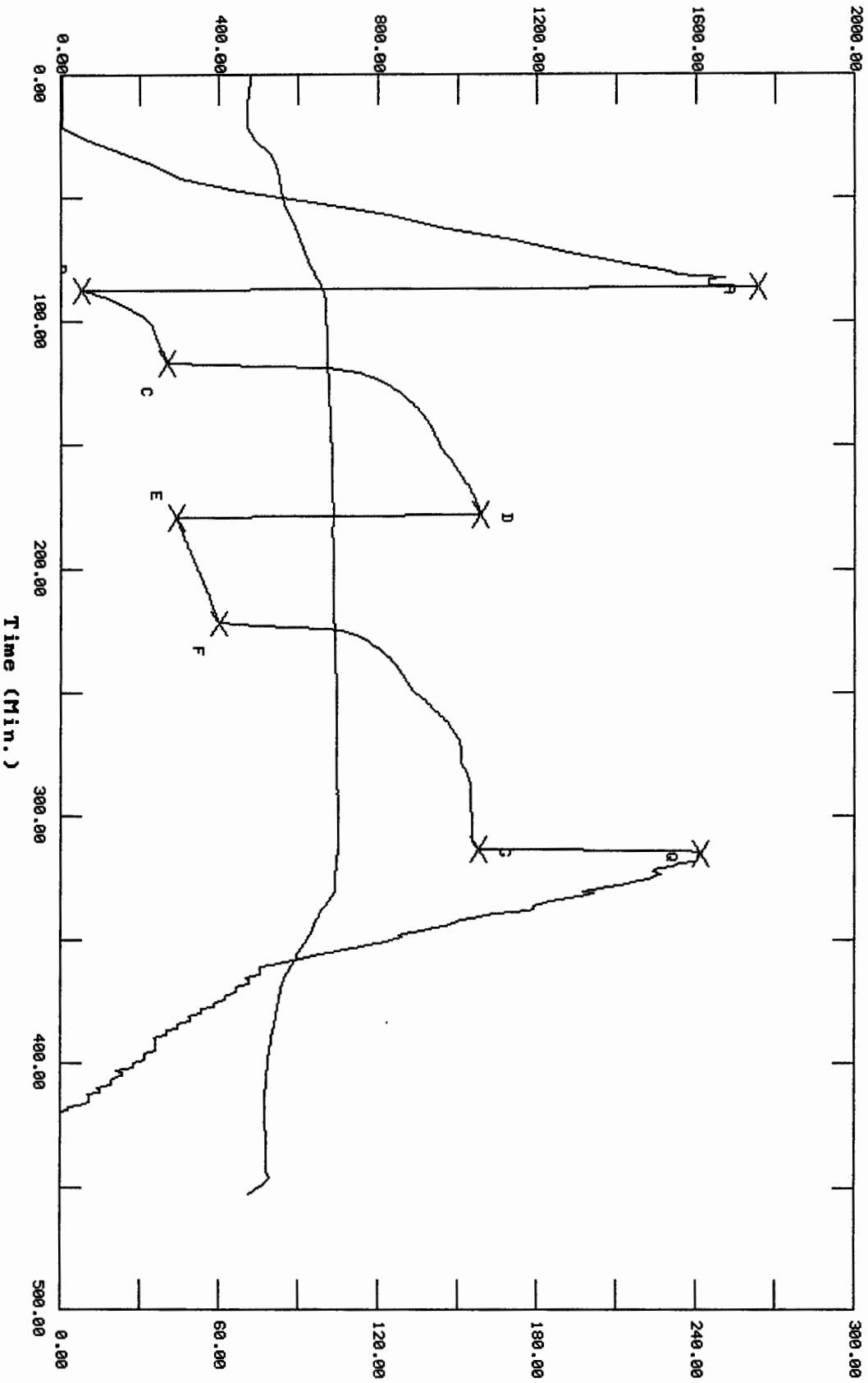


13392 DST #2 Long Ranch #3 Dark Horse Oil Co.

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A:	0.00	1755.47
B:	0.00	51.61
C:	30.00	267.65
D:	61.00	1054.42
E:	0.00	289.60
F:	43.00	397.68
G:	91.00	1050.93
H:	0.00	1611.66

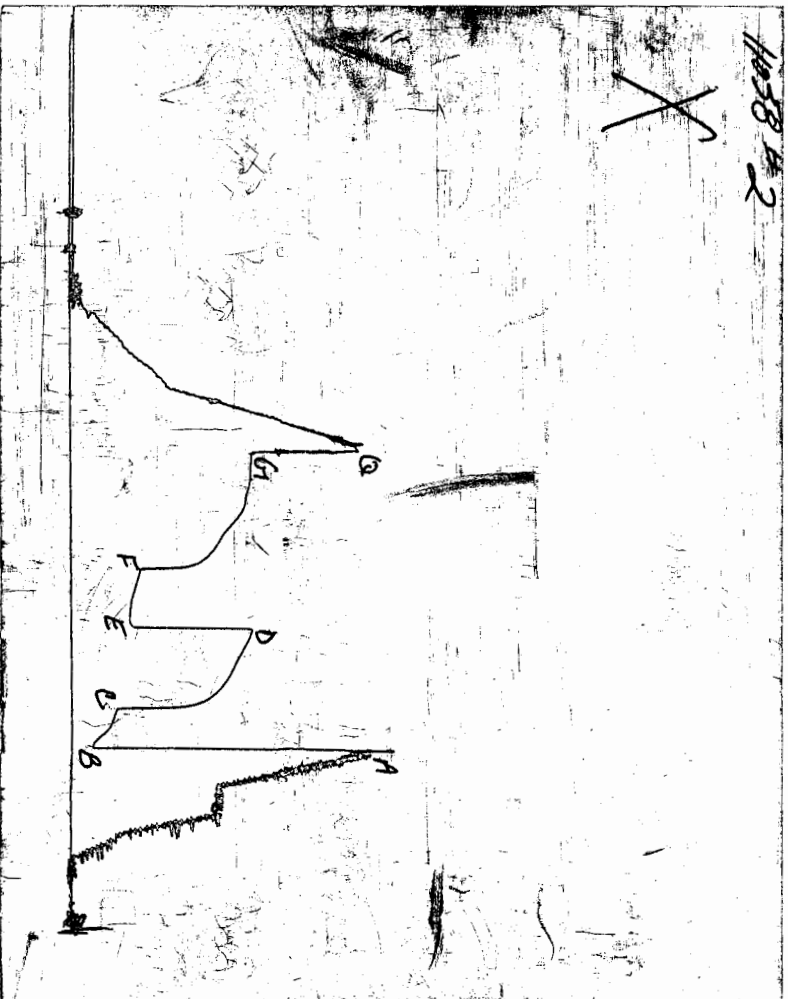


Pressure (PSig)

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

Nº 13392

Test Ticket

Well Name & No.	<u>Larry Ranch #3</u>	Test No.	<u>#2</u>	Date	<u>9-10-00</u>
Company	<u>Dark Horse Oil Co.</u>	Zone Tested	<u>Lans A Follow</u>		
Address	<u>12543 N. Hwy 83 Ste. 228 Park Co. 80134</u>	Elevation	<u>2618</u>	KB	<u>213</u> GL
Co. Rep / Geo.	<u>Paul Garzelman</u>	Cont.	<u>Marlow #3</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>14</u>	Twp.	<u>2</u>	Rge.	<u>27</u> Co. <u>Decatur</u> State <u>KS</u>
No. of Copies	<u>Norm</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>3442</u>	<u>3520</u>	Initial Str Wt./Lbs.	<u>48,000</u>	Unseated Str Wt./Lbs.	<u>51,000</u>
Anchor Length	<u>78</u>		Wt. Set Lbs.	<u>26,000</u>	Wt. Pulled Loose/Lbs.	<u>27,000</u>
Top Packer Depth	<u>3437</u>		Tool Weight	<u>4,000</u>		
Bottom Packer Depth	<u>3442</u>		Hole Size — 7 7/8" ☒		Rubber Size — 6 3/4" ☒	
Total Depth	<u>3520</u>		Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>497'</u>
Mud Wt.	<u>LCM Tr</u>	Vis. <u>4/3</u>	Drill Pipe Size	<u>4 1/2 X 11</u>	Ft. Run	<u>2985'</u>
Blow Description	<u>B.O.B in 4 1/2 min</u>					

Bleed off for 2 min — return in 1 1/2 min built to 7".

7" @ open — B.O.B in 1 min.

Bleed off for 2 min — return in 1 min built to B.O.B.

Recovery — Total Feet	<u>1047'</u>	GIP	<u>380'</u>	Ft. in DC	<u>497'</u>	Ft. in DP	<u>550'</u>
Rec.	<u>320'</u>	Feet Of	<u>C 90</u>	20 %gas	80 %oil	%water	%mud
Rec.	<u>230'</u>	Feet Of	<u>Sm C 90</u>	10 %gas	70 %oil	%water	20 %mud
Rec.	<u>437'</u>	Feet Of	<u>Sm C 90</u>	10 %gas	75 %oil	%water	15 %mud
Rec.	<u>60'</u>	Feet Of	<u>mc 90</u>	10 %gas	50 %oil	%water	40 %mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
BHT	<u>104°</u>	°F Gravity	<u>38</u>	°API D@	<u>80°</u>	°F Corrected Gravity	<u>36</u> °API
RW	<u> </u>	@	<u> </u>	°F Chlorides	<u> </u>	ppm Recovery	Chlorides <u>750</u> ppm System

(A) Initial Hydrostatic Mud	<u>1872</u>	AK-1	<u>1755</u>	Alpine	PSI	Recorder No.	<u>2346</u>	T-On Location	<u>Stayed from Dist #1</u>
(B) First Initial Flow Pressure	<u>111</u>		<u>51</u>		PSI	(depth)	<u>3452'</u>	T-Started	<u>01:10 p.m.</u>
(C) First Final Flow Pressure	<u>244</u>		<u>267</u>		PSI	Recorder No.	<u>11058</u>	T-Open	<u>02:35 p.m.</u>
(D) Initial Shut-in Pressure	<u>1053</u>		<u>1054</u>		PSI	(depth)	<u>3517'</u>	T-Pulled	<u>06:20 p.m.</u>
(E) Second Initial Flow Pressure	<u>322</u>		<u>289</u>		PSI	Recorder No.	<u> </u>	T-Out	<u>08:55 p.m.</u>
(F) Second Final Flow Pressure	<u>400</u>		<u>397</u>		PSI	(depth)	<u> </u>	T-Off Location	<u>Stayed on loc.</u>
(G) Final Shut-in Pressure	<u>1053</u>		<u>1050</u>		PSI	Initial Opening	<u>30</u>	Test	<u>x 650</u>
(Q) Final Hydrostatic Mud	<u>1838</u>		<u>1611</u>		PSI	Initial Shut-in	<u>60</u>	Jars	<u>x 200</u>
						Final Flow	<u>45</u>	Safety Joint	<u>x 50</u>
						Final Shut-in	<u>90</u>	Straddle	<u> </u>

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Approved By Paul Garzelman

Our Representative Shane McBride

Circ. Sub x N/C
Sampler
Extra Packer
Elec. Rec. x 150
Mileage
Other
TOTAL PRICE \$ 1050

TRILOBITE TESTING L.L.C.

OPERATOR : Dark Horse Oil Co.

DATE 9-10-00

WELL NAME: Long Ranch #3

KB 2618.00 ft

TICKET NO: 13393

DST #3

LOCATION : 14-2-27 Decatur co KS

GR 2613.00 ft

FORMATION: C-D-E

INTERVAL : 3515.00 To 3543.00 ft

TD 3543.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2346			PF Fr. 1655 to 1725 hr
SI 45 Range(Psi)	4475.0	4475.0	4995.0	0.0	0.0	IS Fr. 1725 to 1810 hr
SF 60 Clock(hrs)	12	12	alpin			SF Fr. 1810 to 1910 hr
FS 60 Depth(ft)	3540.0	3540.0	3516.0	0.0	0.0	FS Fr. 1910 to 2010 hr

	Field	1	2	3	4	
A. Init Hydro	1747.0	1730.0	1700.0	0.0	0.0	T STARTED 1520 hr
B. First Flow	111.0	84.0	46.0	0.0	0.0	T ON BOTM 1652 hr
B1. Final Flow	244.0	231.0	291.0	0.0	0.0	T OPEN 1655 hr
C. In Shut-in	1064.0	1037.0	1073.0	0.0	0.0	T PULLED 2010 hr
D. Init Flow	333.0	306.0	289.0	0.0	0.0	T OUT 2230 hr
E. Final Flow	466.0	433.0	479.0	0.0	0.0	
F. Fl Shut-in	1064.0	1013.0	1061.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1725.0	1673.0	1674.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 51000.00 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 497.00 ft
						D.P. Length 3016.00 ft

RECOVERY

Tot Fluid 1090.00 ft of 497.00 ft in DC and 593.00 ft in DP
 780.00 ft of Gas in pipe
 340.00 ft of Clean gassy oil 30% gas 70% oil
 180.00 ft of Mud cut gassy oil 20% gas 55% oil 25% mud
 60.00 ft of Mud & water cut gassy oil 10%g 50%o 20%w 20%m
 120.00 ft of Gassy oil cut water 10%g 15%o 75%w
 390.00 ft of Water w/ oil scum
 0.00 ft of 100% water
 0.00 ft of

SALINITY 61000.00 P.P.M. A.P.I. Gravity 38.00

BLOW DESCRIPTION

Initial Flow:

Bottom of bucket in 3 1/2 minutes.

Initial Shut-In:

Bled off for 2 minutes. Return in 1/2 minutes. Bottom of bucket in 21 minutes.

Final Flow:

Bottom of bucke @ open.

Final Shut-In:

Bled off for 1 1/2 minutes. return in 1/2 minute. Bottom of bucket in 22 minutes.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	48.00 S/L
W.L.	6.40 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	108.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Paul Gunzelman
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Long Ranch #3

LOCATION : 14-2-27 Decatur co KS

TICKET No. 13393 D.S.T. No. 3 DATE 9-10-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 28

TOTAL TOOL 55

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 55

D.C. ABOVE TOOLS.Stands8 Single 1 Total 497

D.P. ABOVE TOOLS.Stands48 Single 1 Total 3016

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3568

TOTAL DEPTH 3543

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

P.O. SUB	
C.O. SUB 1'	3486
S.I. TOOL 5'	3492
HMV 5'	3497
JARS 5'	3503
SAFETY JOINT 2'	3505
PACKER top	3510
PACKER bottom	3515
DEPTH 3515	
1'	3516
ANCHOR alpine recorder	3516
22' perf	3538
ak-1 recorder	3540
BULLNOSE 5' bullplug perf	3543
T.D.	3543

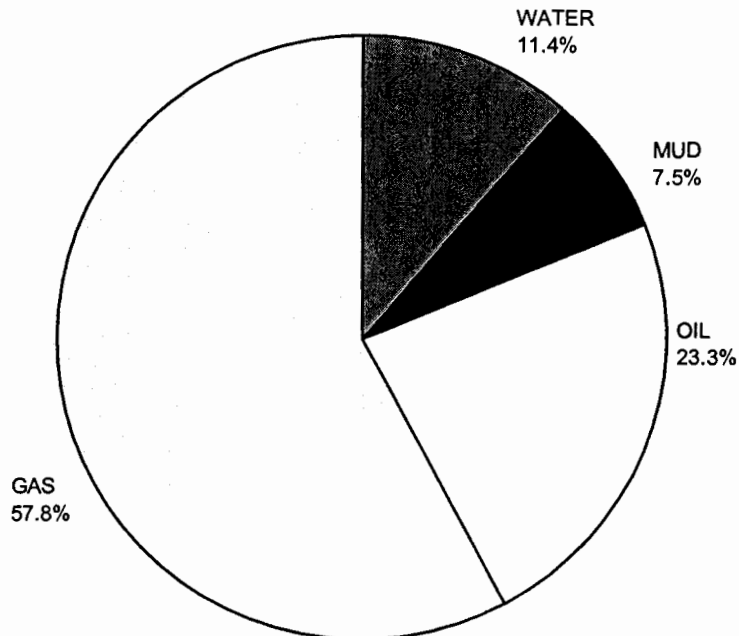
CALCULATED RECOVERY ANALYSIS

DST 3

TICKET 13393

SAMPLE		TOTAL	GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	780	100	780	0	0	0	0	0	0
	PIPE 2	340	30	102	70	238	0	0	25	85
	3	180	20	36	55	99	0	0	20	36
	4	60	10	6	50	30	20	12	0	0
	5	13	10	1.3	15	1.95	75	9.75	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	107	10	10.7	15	16.05	75	80.25	0	0
COLLARS	2	390	0	0	0	0	100	390	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		1870	0	936	0	385	0	492	0	121

BBL OIL=	5.3249535	*	HRS OPEN	1.5	=	BBL/DAY	85.199256
BBL WATER=	2.6088075	*			=		41.74092
BBL MUD=	1.72062						
BBL GAS =	13.210089						



13393 DST #3 Long Ranch #3 Dark Horse Oil Co.

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A:	0.00	1700.88
B:	0.00	46.61
C:	30.00	291.54
D:	45.00	1073.76
E:	0.00	289.42
F:	59.00	479.78
G:	60.00	1061.05
H:	0.00	1674.80

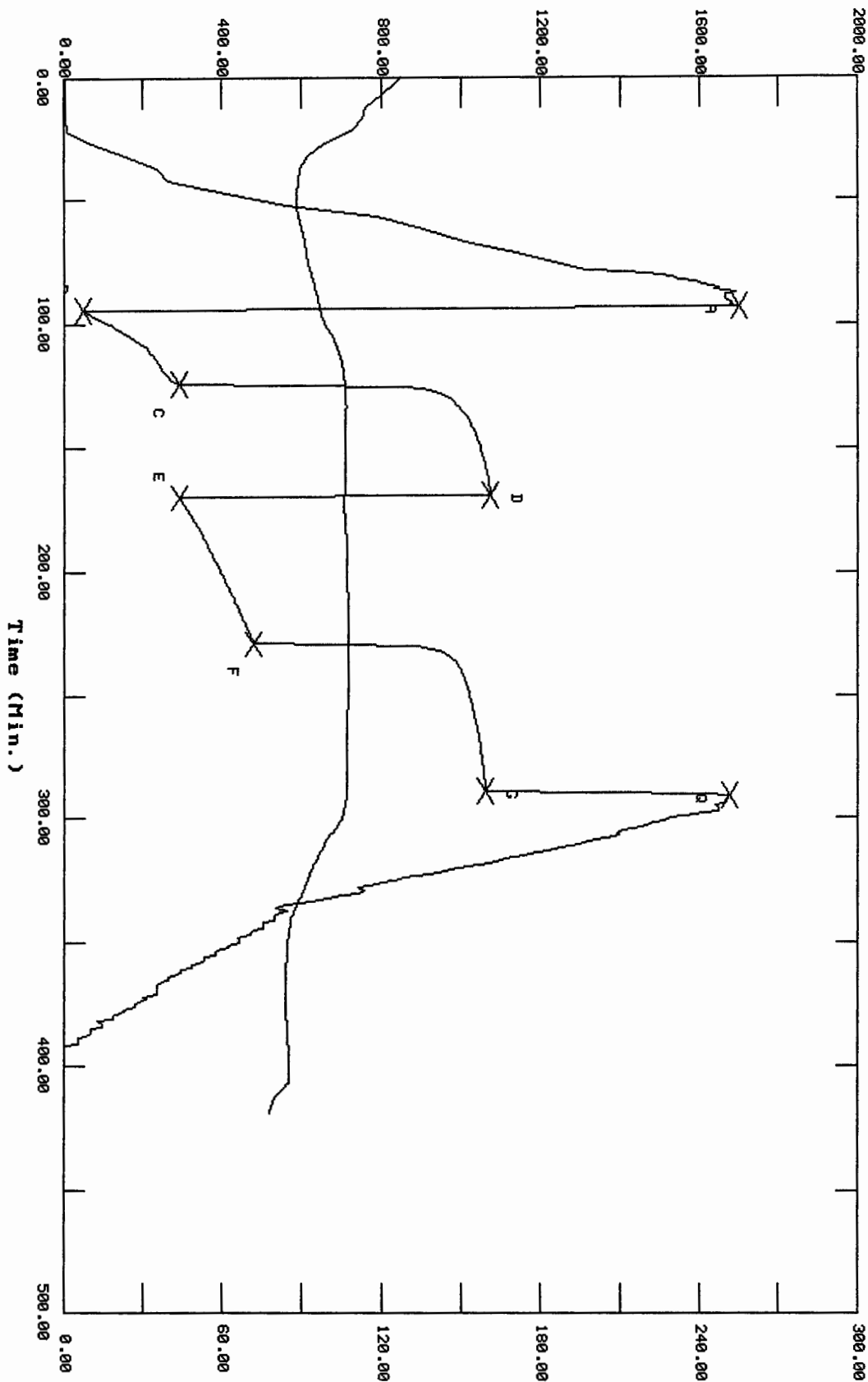
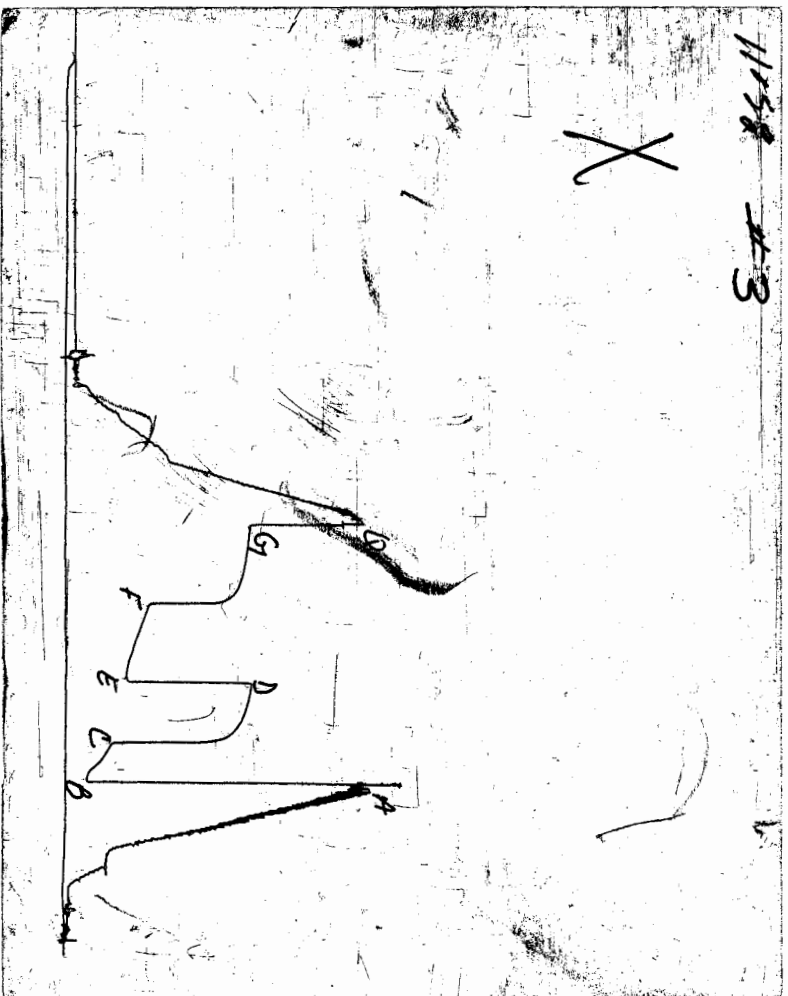


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13393

Test Ticket

Well Name & No. <u>Long Ranch #3</u>	Test No. <u>3</u>	Date <u>9-10-00</u>
Company <u>Dark Horse Oil Co.</u>	Zone Tested <u>C-D-E</u>	
Address <u>12543 N Hwy 83 - Ste 228 Parker Co Box 34</u>	Elevation <u>2618'</u> KB <u>2613'</u> GL	
Co. Rep / Geo. <u>Paul G. Szymanski</u>	Cont. <u>Mark #3</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>14</u> Twp. <u>2</u> Rge. <u>21</u> Co. <u>Deer</u> State <u>KS</u>		
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>A</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>3515</u>	<u>3543</u>	Initial Str Wt./Lbs. <u>48,000</u>	Unseated Str Wt./Lbs. <u>51,000</u>
Anchor Length <u>28'</u>		Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>29,000</u>
Top Packer Depth <u>3510</u>		Tool Weight <u>4,000</u>	
Bottom Packer Depth <u>3515</u>		Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>3543</u>		Wt. Pipe Run <u> </u>	Drill Collar Run <u>497'</u>
Mud Wt. <u>8.9</u> LCM <u>-0-</u> Vis. <u>48</u> WL <u>6.4</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3016'</u>

Blow Description B.O.B in 3 1/2 min.
Bleed off for 2 min return 1/2 min, B.O.B 21 min
B.O.B @ open
Bleed off for 1 1/2 min return 1/2 min, B.O.B 22 min

Recovery — Total Feet <u>1090'</u>	GIP <u>780'</u>	Ft. in DC <u>497'</u>	Ft. in DP <u>593'</u>
Rec. <u>340'</u>	Feet Of <u>C 90</u>	30 % gas 70 % oil	% water % mud
Rec. <u>180'</u>	Feet Of <u>M C 90</u>	20 % gas 55 % oil	% water 25 % mud
Rec. <u>60'</u>	Feet Of <u>M 3 W C 90</u>	10 % gas 50 % oil	20 % water 20 % mud
Rec. <u>120'</u>	Feet Of <u>9'0 C W</u>	10 % gas 15 % oil	75 % water % mud
Rec. <u>390'</u>	Feet Of <u>Water 0.1/sec</u>	% gas % oil	100 % water % mud
BHT <u>108°</u>	°F Gravity <u>39</u>	°API D @ <u>70°</u>	°F Corrected Gravity <u>38</u> °API
RW <u>.112</u> @ <u>78°</u>	°F Chlorides <u>61,000</u>	ppm Recovery	Chlorides <u>750</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1747</u>	Alpine <u>1700</u>	PSI Recorder No. <u>2346</u>	T-On Location <u>Stayed</u>
(B) First Initial Flow Pressure	<u>111</u>	<u>46</u>	PSI (depth) <u>3516</u>	T-Started <u>15:20 p.m.</u>
(C) First Final Flow Pressure	<u>244</u>	<u>291</u>	PSI Recorder No. <u>11058</u>	T-Open <u>16:55 p.m.</u>
(D) Initial Shut-In Pressure	<u>1064</u>	<u>1073</u>	PSI (depth) <u>3540</u>	T-Pulled <u>20:10 p.m.</u>
(E) Second Initial Flow Pressure	<u>333</u>	<u>289</u>	PSI Recorder No. <u> </u>	T-Out <u>22:30 p.m.</u>
(F) Second Final Flow Pressure	<u>466</u>	<u>479</u>	PSI (depth) <u> </u>	T-Off Location <u>Stayed at loc</u>
(G) Final Shut-in Pressure	<u>1064</u>	<u>1061</u>	PSI Initial Opening <u>30</u>	Test <u>X</u> <u>650</u>
(Q) Final Hydrostatic Mud	<u>1725</u>	<u>1674</u>	PSI Initial Shut-in <u>45</u>	Jars <u>X</u> <u>200</u>
			Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>
			Final Shut-in <u>600</u>	Straddle <u> </u>
				Circ. Sub <u>X</u> <u>N/L</u>
				Sampler <u> </u>
				Extra Packer <u> </u>
				Elec. Rec. <u>X</u> <u>150</u>
				Mileage <u> </u>
				Other <u> </u>
				TOTAL PRICE \$ <u>1050</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 Szymanski

Our Representative Shane M. B.

TRILOBITE TESTING L.L.C.

OPERATOR : Dark Horse Oil Co.

DATE 9-11-00

WELL NAME: Long Ranch #3

KB 2618.00 ft

TICKET NO: 13394

DST #4

LOCATION : 14-2-27 Decatur co KS

GR 2613.00 ft

FORMATION: J-K

INTERVAL : 3606.00 To 3671.00 ft

TD 3671.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2346			PF Fr. 1345 to 1415 hr
SI 45 Range(Psi)	4475.0	4475.0	4995.0	0.0	0.0	IS Fr. 1415 to 1500 hr
SF 60 Clock(hrs)	12	12	alpin			SF Fr. 1500 to 1600 hr
FS 60 Depth(ft)	3668.0	3668.0	3607.0	0.0	0.0	FS Fr. 1600 to 1700 hr

	Field	1	2	3	4	
A. Init Hydro	1838.0	1805.0	1776.0	0.0	0.0	T STARTED 1205 hr
B. First Flow	122.0	86.0	35.0	0.0	0.0	T ON BOTM 1342 hr
B1. Final Flow	155.0	127.0	131.0	0.0	0.0	T OPEN 1345 hr
C. In Shut-in	1231.0	1211.0	1216.0	0.0	0.0	T PULLED 1700 hr
D. Init Flow	211.0	182.0	137.0	0.0	0.0	T OUT hr
E. Final Flow	322.0	293.0	301.0	0.0	0.0	
F. Fl Shut-in	1186.0	1154.0	1166.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1861.0	1867.0	1762.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 49000.00 lbs
						Unseated Str Wt 51000.00 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 497.00 ft
						D.P. Length 3139.00 ft

RECOVERY

Tot Fluid 590.00 ft of 497.00 ft in DC and 93.00 ft in DP
 93.00 ft of Water cut mud w/ oil scum
 0.00 ft of 40% water 60% mud
 60.00 ft of Slightly mud cut water
 0.00 ft of 85% water 15% mud
 437.00 ft of Water
 0.00 ft of 100% water
 0.00 ft of
 0.00 ft of

SALINITY 28500.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Surface blow built to 9".

Initial Shut-In:

No return.

Final Flow:

Surface blow in 2 minutes. built to bottom of bucket in 45 minutes.

Final Shut-In:

No return.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c:
Vis.	48.00 S/L
W.L.	6.40 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	107.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Paul Gunzelman
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Long Ranch #3

LOCATION : 14-2-27 Decatur co KS

TICKET No. 13394 D.S.T. No. 4 DATE 9-11-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 33

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY 92

D.C. ABOVE TOOLS.Stands8 Single 1 Total 497

D.P. ABOVE TOOLS.Stands Single Total 3107

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3696

TOTAL DEPTH 3671

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

P.O. SUB	
C.O. SUB 1'	3578
S.I. TOOL 5'	3584
HMV 5'	3589
JARS 5'	3594
SAFETY JOINT 2'	3596
PACKER top	3601
PACKER bottom	3606
DEPTH 3606	
1'	3607
ANCHOR alpine recorder	3607
25' perf	3632
1' c.o.	3633
32' drillpipe	3665
1' c.o.	3666
ak-1 recorder	3668
BULLNOSE 5'bullplug perf	3671
T.D.	3671

TEST HISTORY

13394 DST #4 Long Ranch #3 Dark Horse Oil Co.

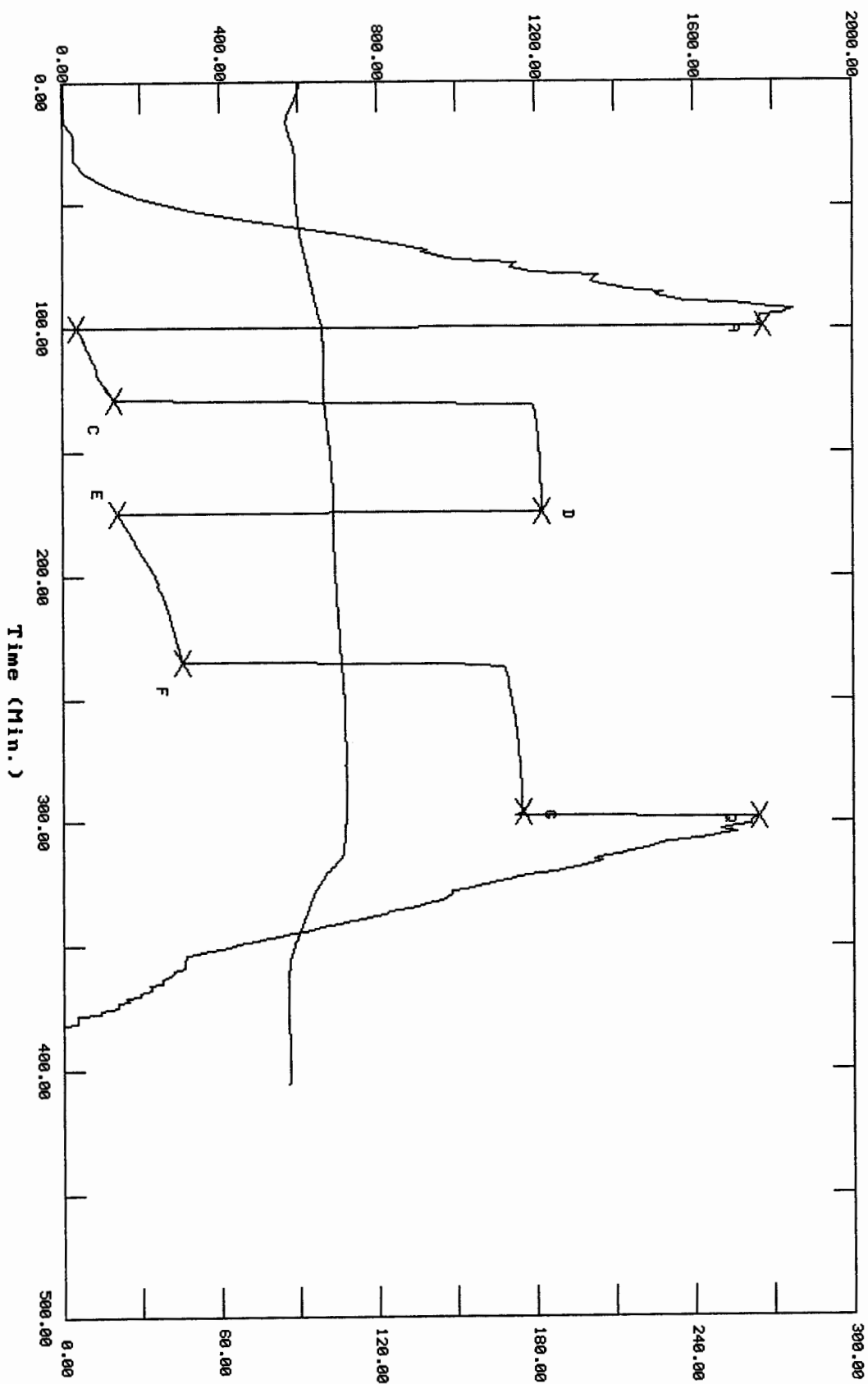
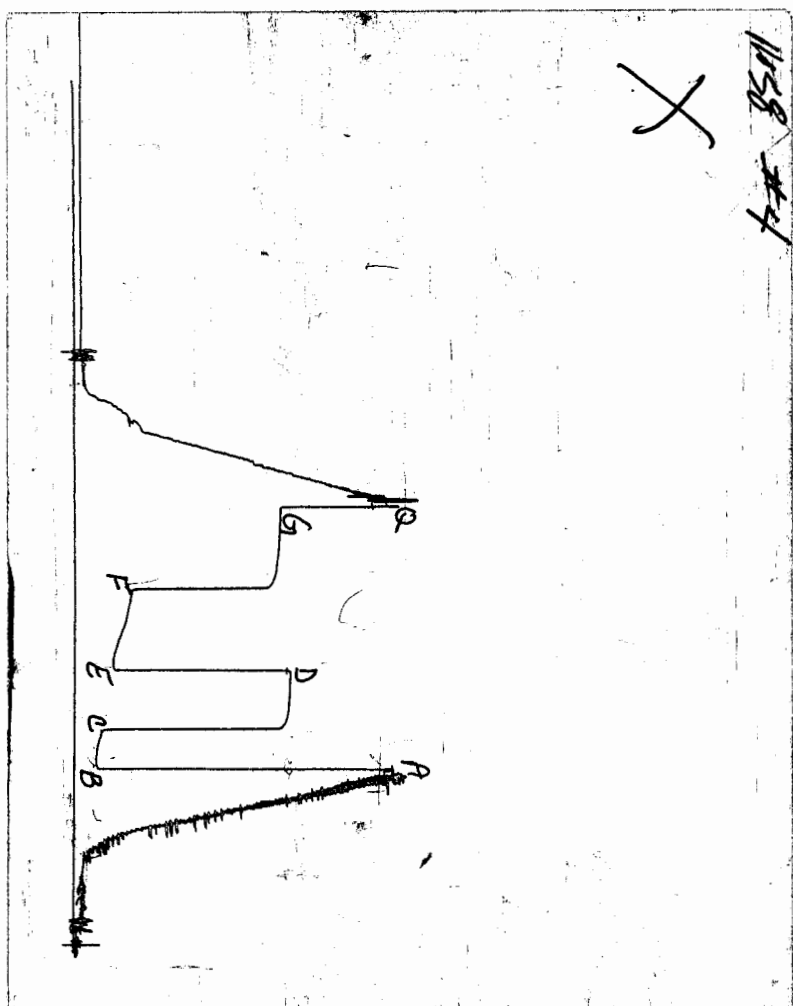


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 13394

Test Ticket

Well Name & No. <u>Long Ravel #3</u>	Test No. <u>#4</u>	Date <u>7-11-00</u>
Company <u>Dank Horse Oil Co.</u>	Zone Tested <u>5-K</u>	
Address <u>12543 N. Hwy 83 - Ste. 228 Parker, Co 80134</u>	Elevation <u>2618</u>	KB <u>2613</u> GL
Co. Rep / Geo. <u>Paul Gauderman</u>	Cont. <u>Murfin #3</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>14</u> Twp. <u>2</u> Rge. <u>27</u> Co. <u>Decatur</u> State <u>KS</u>		
No. of Copies <u>N/A</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>3606</u>	<u>3671</u>	Initial Str Wt./Lbs. <u>49000</u>	Unseated Str Wt./Lbs. <u>51,000</u>
Anchor Length <u> </u>	<u>65</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>70,000</u>
Top Packer Depth <u> </u>	<u>3601</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth <u> </u>	<u>3606</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u> </u>	<u>3671</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>497'</u>
Mud Wt. <u>8.9</u> LCM <u>-0-</u> Vis. <u>40</u> WL <u>6.4</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3139'</u>
Blow Description <u>Surface blow built to 9" in.</u>			

No return
Surface blow in 2 min built to B.O.B. in 45 min.
No return

Recovery — Total Feet <u>590'</u>	GIP <u> </u>	Ft. in DC <u>497'</u>	Ft. in DP <u>93'</u>
Rec. <u>93</u> Feet Of <u>WCM w/o. 1.5um</u>	%gas <u>5um</u>	%oil <u>40%</u>	%water <u>60%</u>
Rec. <u>60</u> Feet Of <u>5 MC W</u>	%gas <u> </u>	%oil <u>85%</u>	%water <u>15%</u>
Rec. <u>437</u> Feet Of <u>Water</u>	%gas <u> </u>	%oil <u>100%</u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
BHT <u>107°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u>.19</u> @ <u>89°</u> °F Chlorides <u>28,500</u> ppm Recovery	Chlorides <u>250</u> ppm System		

(A) Initial Hydrostatic Mud	AK-1 <u>1838</u>	Alpine <u>1776</u>	PSI Recorder No. <u>2346</u>	T-On Location <u>stayed on loc.</u>
(B) First Initial Flow Pressure	<u>122</u>	<u>35</u>	PSI (depth) <u>3607'</u>	T-Started <u>12:05 p.m.</u>
(C) First Final Flow Pressure	<u>155</u>	<u>131</u>	PSI Recorder No. <u>11058</u>	T-Open <u>13:45 p.m.</u>
(D) Initial Shut-In Pressure	<u>1231</u>	<u>1216</u>	PSI (depth) <u>3668'</u>	T-Pulled <u>17:00 p.m.</u>
(E) Second Initial Flow Pressure	<u>211</u>	<u>137</u>	PSI Recorder No. <u> </u>	T-Out <u>19:00 p.m.</u>
(F) Second Final Flow Pressure	<u>322</u>	<u>301</u>	PSI (depth) <u> </u>	T-Off Location <u>20:10 p.m.</u>
(G) Final Shut-in Pressure	<u>1186</u>	<u>1166</u>	PSI Initial Opening <u>30</u>	Test X <u>650</u>
(Q) Final Hydrostatic Mud	<u>1861</u>	<u>1762</u>	PSI Initial Shut-in <u>45</u>	Jars X <u>200</u>
			Final Flow <u>60</u>	Safety Joint X <u>50</u>
			Final Shut-in <u>60</u>	Straddle <u> </u>

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Approved By Paul Gauderman

Our Representative Steve M. Gauderman

Circ. Sub X N/A
Sampler
Extra Packer
Elec. Rec. X 150
Mileage
Other
TOTAL PRICE \$ 1050