

15-179-21104

TRILOBITE TESTING L.L.C.

17-9s-26w

OPERATOR : Northern Lights Oil CO.
 WELL NAME: Desiree #1
 LOCATION : 17-9s-26w Sheridan co KS
 INTERVAL : 3845.00 To 3890.00 ft

DATE 11-20-00
 KB 2690.00 ft TICKET NO: 13815 DST #1
 GR 2685.00 ft FORMATION: LKC H-I
 TD 3890.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11084	11084				PF Fr. 2343 to 0028 hr
SI 45 Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 0028 to 0113 hr
SF 45 Clock(hrs)	12	12				SF Fr. 0113 to 0158 hr
FS 60 Depth(ft)	3851.0	3851.0	0.0	0.0	0.0	FS Fr. 0158 to 0258 hr

	Field	1	2	3	4	
A. Init Hydro	1940.0	1959.0	0.0	0.0	0.0	T STARTED 2215 hr
B. First Flow	44.0	45.0	0.0	0.0	0.0	T ON BOTM 2340 hr
B1. Final Flow	66.0	64.0	0.0	0.0	0.0	T OPEN 2343 hr
C. In Shut-in	1003.0	1000.0	0.0	0.0	0.0	T PULLED 0258 hr
D. Init Flow	77.0	83.0	0.0	0.0	0.0	T OUT 0415 hr
E. Final Flow	99.0	95.0	0.0	0.0	0.0	
F. Fl Shut-in	1003.0	1000.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1886.0	1880.0	0.0	0.0	0.0	Tool Wt. 3600.00 lbs
Inside/Outside	I	I				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 3540000.00 lb
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 51000.00 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 241.00 ft
						D.P. Length 3613.00 ft

RECOVERY

Tot Fluid 170.00 ft of 170.00 ft in DC and 0.00 ft in DP
 120.00 ft of Gas in pipe
 25.00 ft of Clean oil
 85.00 ft of Slightly oil & water cut mud
 0.00 ft of 10% oil 10% water 80% mud
 60.00 ft of Slightly oil & water cut mud
 0.00 ft of 5% oil 25% water 70% mud
 0.00 ft of
 0.00 ft of

SALINITY 46000.00 P.P.M. A.P.I. Gravity 32.00

BLOW DESCRIPTION

Initial Flow:
 1/2" blow building to 4 1/2"
 Final Flow:
 Surface blow building to 4".

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/c
 Vis. 51.00 S/L
 W.L. 9.70 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 120.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Paul Simpson
 Co. Rep. Kurt Smith
 Contr. Mallard
 Rig # 1
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 13815

SAMPLE #		TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRILL	1	120	100	120	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	25	0	0	100	25	0	0	0	0
COLLARS	2	85	0	0	10	0	10	8.5	80	68
	3	60	0	0	5	3	25	15	70	42
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		290	0	120	0	28	0	23.5	0	110

BBL OIL=	0.13692	*	HRS OPEN	=	BBL/DAY
BBL WATER=	0.114915	*	1.5	=	2.19072
BBL MUD=	0.5379				1.83864
BBL GAS =	1.7064				

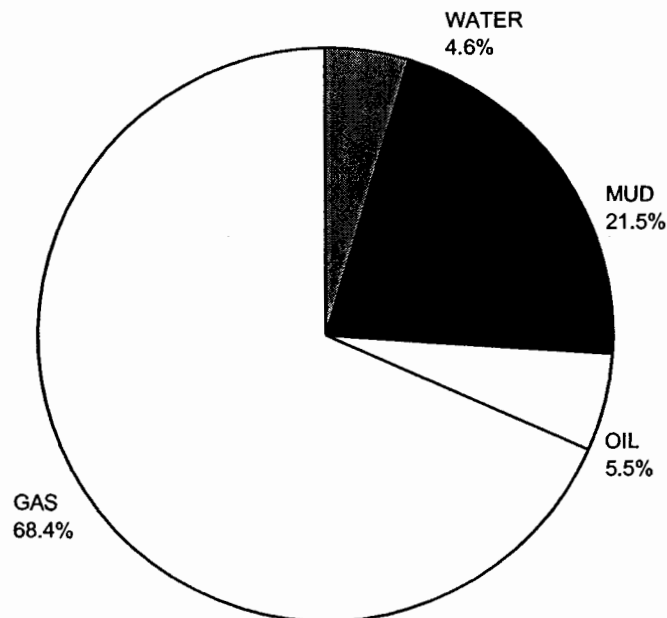
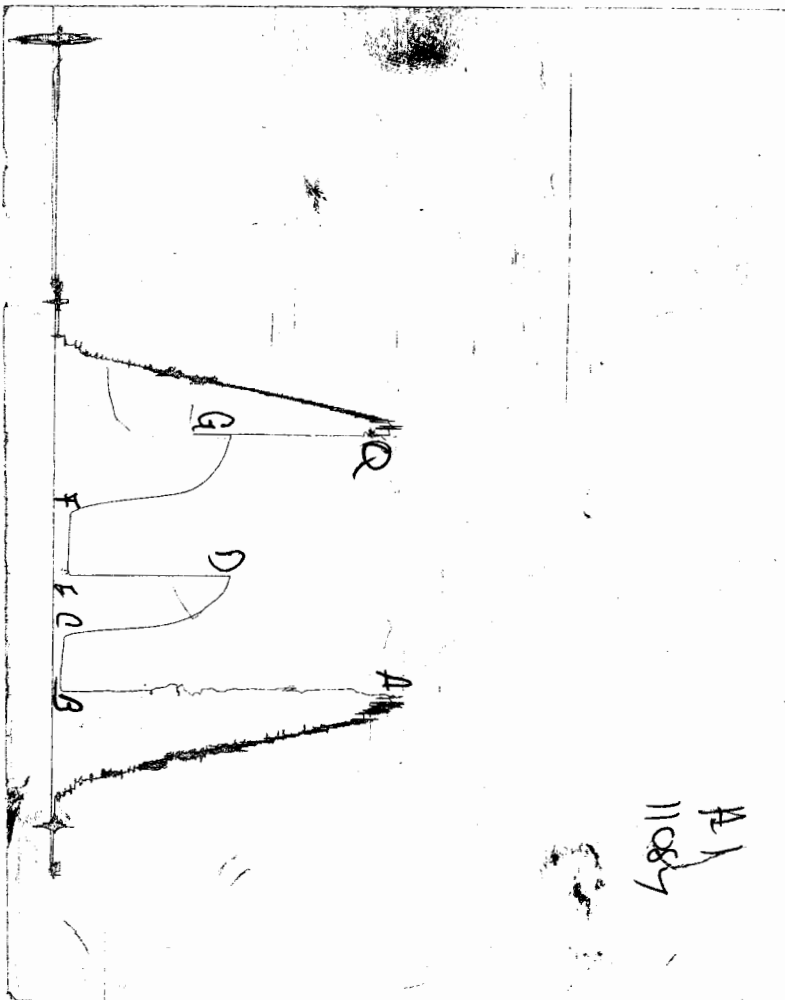


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13815

Test Ticket

Well Name & No. <u>Desire #1</u>	Test No. <u>1</u>	Date <u>11-20-00</u>
Company <u>Northern Light Oil Co. LC</u>	Zone Tested <u>LKL H-1</u>	
Address <u>Box 164 Andover KS 67002</u>	Elevation <u>2690</u>	KB <u>2685</u> GL
Co. Rep / Geo. <u>Kent Smith</u>	Cont. <u>Mallard</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>17</u> Twp. <u>9S</u> Rge. <u>26W</u>	Co. <u>Shenandoah</u>	State <u>KY</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>3845 - 3890</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>51,000</u>
Anchor Length <u>45</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>54,000</u>
Top Packer Depth <u>3840</u>	Tool Weight <u>3600</u>	
Bottom Packer Depth <u>3845</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3890</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>241</u>
Mud Wt. <u> </u> LCM <u> </u> Vis. <u> </u> WL <u> </u>	Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>3613</u>
Blow Description <u>1/2" blow building to 4 1/2"</u>		

SS surface blow building to 4"

Recovery — Total Feet <u>170</u>	GIP <u>120</u>	Ft. in DC <u>170</u>	Ft. in DP <u> </u>
Rec. <u>25</u> Feet Of <u>clean oil</u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>		
Rec. <u>85</u> Feet Of <u>sl oil w cm</u>	%gas <u>10</u> %oil <u>10</u> %water <u>80</u> %mud <u> </u>		
Rec. <u>60</u> Feet Of <u>sl oil w cm</u>	%gas <u>5</u> %oil <u>25</u> %water <u>70</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 <u> </u> °F Gravity <u>32</u>	°API D@ <u>60</u>	°F Corrected Gravity <u>32</u>	°API <u> </u>
RW <u>28</u> @ <u>41</u>	°F Chlorides <u>46,000</u> ppm Recovery	Chlorides <u> </u> ppm System	

(A) Initial Hydrostatic Mud <u>1940</u>	AK-1	Alpine	PSI Recorder No. <u>11054</u>	T-On Location <u>2015</u>
(B) First Initial Flow Pressure <u>44</u>			PSI (depth) <u>3851</u>	T-Started <u>2215</u>
(C) First Final Flow Pressure <u>66</u>			PSI Recorder No. <u>24174</u>	T-Open <u>2343</u>
(D) Initial Shut-In Pressure <u>1003</u>			PSI (depth) <u>3887</u>	T-Pulled <u>0250</u> 8
(E) Second Initial Flow Pressure <u>77</u>			PSI Recorder No. <u> </u>	T-Out <u>0415</u>
(F) Second Final Flow Pressure <u>99</u>			PSI (depth) <u> </u>	T-Off Location <u>0510</u>
(G) Final Shut-in Pressure <u>1003</u>			PSI Initial Opening <u>45</u>	Test <u>1050</u>
(Q) Final Hydrostatic Mud <u>1886</u>			PSI Initial Shut-in <u>45</u>	Jars <u> </u>
			Final Flow <u>45</u>	Safety Joint <u> </u>
			Final Shut-in <u>60</u>	Straddle <u> </u>

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Approved By Paul Simpson

Our Representative Paul Simpson

Extra Packer
Elec. Rec.
Mileage 50 70
Other
TOTAL PRICE \$ 120

TRILOBITE TESTING L.L.C.

OPERATOR : Northern Lights Oil Co.
WELL NAME: Desiree #1
LOCATION : 17-9s-26w Sheridan co KS
INTERVAL : 3887.00 To 3933.00 ft

DATE 11-21-00
KB 2690.00 ft TICKET NO: 13816 DST #2
GR 2685.00 ft FORMATION: LKC F
TD 3933.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11084	11084				PF Fr. 1543 to 1613 hr
SI 30	Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 1613 to 1643 hr
SF 45	Clock(hrs)	12	12				SF Fr. 1643 to 1728 hr
FS 60	Depth(ft)	3893.0	3893.0	0.0	0.0	0.0	FS Fr. 1728 to 1828 hr

	Field	1	2	3	4	
A. Init Hydro	1993.0	1959.0	0.0	0.0	0.0	T STARTED 1410 hr
B. First Flow	55.0	45.0	0.0	0.0	0.0	T ON BOTM 1540 hr
B1. Final Flow	153.0	64.0	0.0	0.0	0.0	T OPEN 1543 hr
C. In Shut-in	1078.0	1000.0	0.0	0.0	0.0	T PULLED 1828 hr
D. Init Flow	165.0	83.0	0.0	0.0	0.0	T OUT 2020 hr
E. Final Flow	230.0	95.0	0.0	0.0	0.0	
F. Fl Shut-in	1067.0	1000.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1929.0	1880.0	0.0	0.0	0.0	Tool Wt. 3600.00 lbs
Inside/Outside	I	I				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 lbs

RECOVERY

Tot Fluid 440.00 ft of 241.00 ft in DC and 199.00 ft in DP
280.00 ft of Gas in pipe
20.00 ft of Clean gassy oil
0.00 ft of 10% gas 90% oil
120.00 ft of Slightly oil & wtaer cut mud
0.00 ft of 5% oil 25% wter 70% mud
300.00 ft of Muddy water
0.00 ft of 70% water 30% mud
0.00 ft of
SALINITY 95000.00 P.P.M. A.P.I. Gravity 38.00

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	51.00 S/L
W.L.	9.70 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Kurt Smith
Contr.	Mallard
Rig #	1
Unit #	
Pump T.	

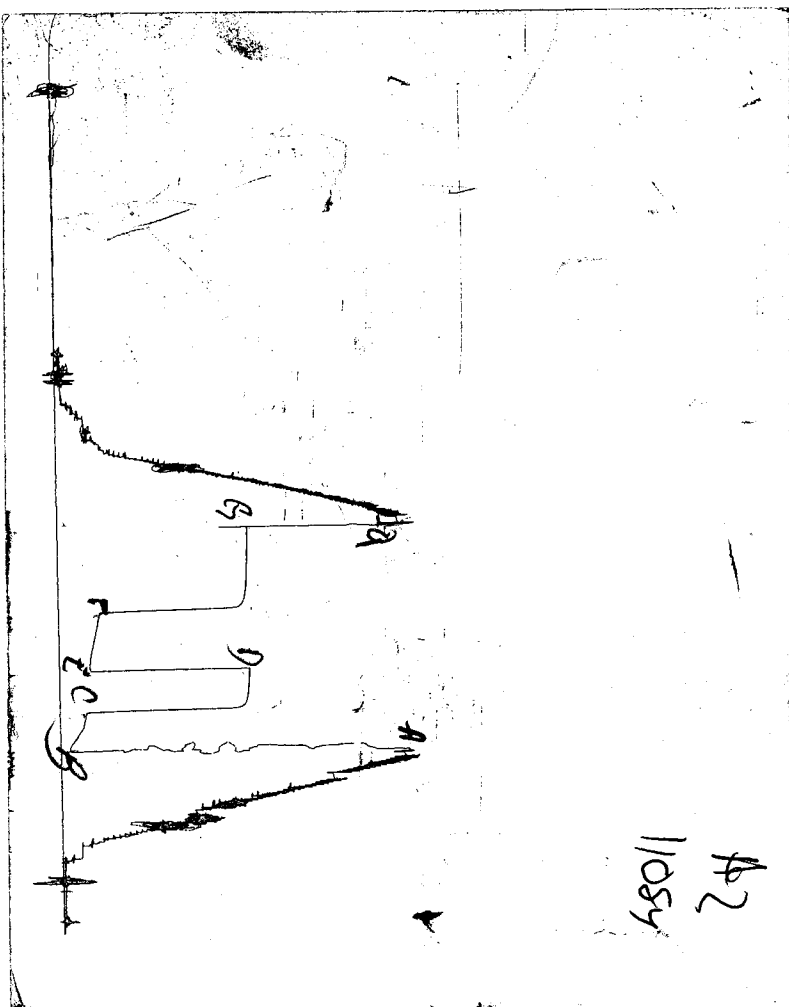
BLOW DESCRIPTION

Initial Flow:
1/2" blow building to bottom of bucket in 20 minutes.
Initial Shut-In:
1/4" blow
Final Flow:
1/2" blow building to bottom of bucket in 25 minutes.
Final Shut-In:
1/4" blow

SAMPLES:
SENT TO:

Test Successful: Y

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 13816

Test Ticket

Well Name & No. <u>Desire #1</u>	Test No. <u>2</u>	Date <u>11-21-00</u>
Company <u>Northern Lights Oil Co. LLC</u>	Zone Tested <u>LKC 'F'</u>	
Address _____	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Kurt Smith</u>	Cont. <u>Mallard</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>17</u>	Twp. <u>9S</u>	Rge. <u>26W</u> Co. <u>Sheridan</u> State <u>WY</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3887-3933</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>50,000</u>
Anchor Length <u>46</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>60,000</u>
Top Packer Depth <u>3882</u>	Tool Weight <u>3600</u>	
Bottom Packer Depth <u>3887</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3933</u>	Wt. Pipe Run _____	Drill Collar Run <u>241</u>
Mud Wt. <u>9.4</u> LCM _____ Vis. <u>51</u> WL <u>9.7</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3645</u>
Blow Description <u>1/2" blow building to bottom of bucket in 20 minutes FSI -</u>		
<u>1/2" blow FS - 1/2" blow building to bottom of bucket in 25 minutes</u>		
<u>FSI - 1/2" blow</u>		

Recovery — Total Feet <u>440</u>	GIP <u>280</u>	Ft. in DC <u>241</u>	Ft. in DP <u>199</u>
Rec. <u>20</u> Feet Of <u>clean gss 5701</u>	10% gas <u>90</u> %oil _____	%water _____	%mud _____
Rec. <u>120</u> Feet Of <u>sl & w/cm</u>	%gas <u>5</u> %oil <u>25</u>	%water <u>70</u>	%mud _____
Rec. <u>300</u> Feet Of <u>MW</u>	%gas _____ %oil <u>70</u>	%water <u>30</u>	%mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____	%mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____	%mud _____
BHT <u>122</u> °F Gravity <u>38</u>	°API D@ <u>60</u>	°F Corrected Gravity <u>38</u>	°API _____
RW <u>.13</u> @ <u>45</u> °F	Chlorides <u>95 ppm</u>	ppm Recovery _____	Chlorides _____ ppm System _____

(A) Initial Hydrostatic Mud <u>1993</u>	AK-1 _____	Alpine _____	PSI Recorder No. <u>11084</u>	T-On Location <u>1330</u>
(B) First Initial Flow Pressure <u>55</u>			PSI (depth) <u>3893</u>	T-Started <u>1410</u>
(C) First Final Flow Pressure <u>153</u>			PSI Recorder No. <u>24174</u>	T-Open <u>1543</u>
(D) Initial Shut-In Pressure <u>1078</u>			PSI (depth) <u>3930</u>	T-Pulled <u>1828</u>
(E) Second Initial Flow Pressure <u>165</u>			PSI Recorder No. _____	T-Out <u>2020</u>
(F) Second Final Flow Pressure <u>230</u>			PSI (depth) _____	T-Off Location <u>2040</u>
(G) Final Shut-in Pressure <u>1067</u>			PSI Initial Opening <u>30</u>	Test <u>1650</u>
(Q) Final Hydrostatic Mud <u>1929</u>			PSI Initial Shut-in <u>30</u>	Jars _____

Final Flow <u>45</u>	Safety Joint _____
Final Shut-in <u>60</u>	Straddle _____

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Approved By _____

Our Representative Paul Simpson

Circ. Sub _____
Sampler _____
Extra Packer _____
Elec. Rec. _____
Mileage <u>20 miles</u>
Other _____
TOTAL PRICE \$ <u>720</u>



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Northern Lights Oil

Box 164
Andover, KS 67002

ATTN: Kurt Smith

Desiree #1

17-9s 26w Sheridan K

Job Ticket: 13817

DST#: 3

Test Start: 2000.11.22 @ 04:23:00

GENERAL INFORMATION:

Formation: **Lanisng H**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 06:01:54

Time Test Ended: 08:50:00

Test Type: **Conventional Bottom Hole**

Tester: **Paul Simpson**

Unit No: **18**

Interval: **3937.00 ft (KB) To 3975.00 ft (KB) (TVD)**

Total Depth: **3975.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2690.00 ft (KB)**

2685.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **3289** Inside

Press@RunDepth: **254.63 psig @ 3948.00 ft (KB)**

Start Date: **2000.11.22**

End Date:

2000.11.22

Start Time: **04:23:41**

End Time:

09:38:39

Capacity: **7000.00 psig**

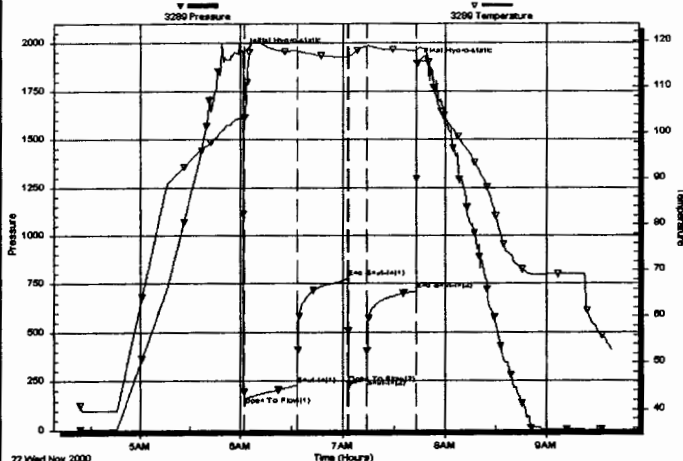
Last Calib.: **2000.01.03**

Time On Btm: **2000.11.22 @ 06:01:24**

Time Off Btm: **2000.11.22 @ 07:43:09**

TEST COMMENT: **Rw .18@64 IF- 1" building to bottom of bucket in 13 min
FF- surface blow building to 5.5"**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
98	1954.00	103.16	Initial Hydro-static
99	122.79	103.21	Open To Flow (1)
130	228.62	117.88	Shut-In(1)
160	778.78	116.50	End Shut-In(1)
160	233.44	116.60	Open To Flow (2)
170	254.63	118.83	Shut-In(2)
199	711.97	118.00	End Shut-In(2)
200	1898.21	118.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	oil specked watery mud 3% oil 47% water	2.01
241.00	oil specked muddy water 1% oil 69% water	3.38

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil

Desiree #1

Box 164
Andover, KS 67002

17-9s 26w Sheridan K

Job Ticket: 13817 DST#: 3

ATTN: Kurt Smith

Test Start: 2000.11.22 @ 04:23:00

Tool Information

Drill Pipe:	Length: 3707.00 ft	Diameter: 3.80 inches	Volume: 52.00 bbl	Tool Weight:	3500.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight set on Packer:	20000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight to Pull Loose:	55000.00 lb
Drill Pipe Above KB:	26.00 ft			Tool Chased	ft
Depth to Top Packer:	3937.00 ft			String Weight: Initial	50000.00 lb
Depth to Bottom Packer:	ft			Final	52000.00 lb
Interval between Packers:	ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			3923.00	
S.I. Tool	5.00			3928.00	
HMV	5.00			3933.00	
Packer	4.00			3937.00	15.00 Bottom Of Top Packer
Packer	5.00			3942.00	
Stubb	1.00			3943.00	
Perforations	5.00			3948.00	
Recorder	0.00	3289	Inside	3948.00	
Perforations	29.00			3977.00	
Recorder	0.00	24174	Outside	3977.00	
Bullnose	3.00			3980.00	43.00 Bottom Packers & Anchor

Total Tool Length: 58.00

Serial #: 3289

Inside Northern Lights Oil

17-9s 26w Sheridan K

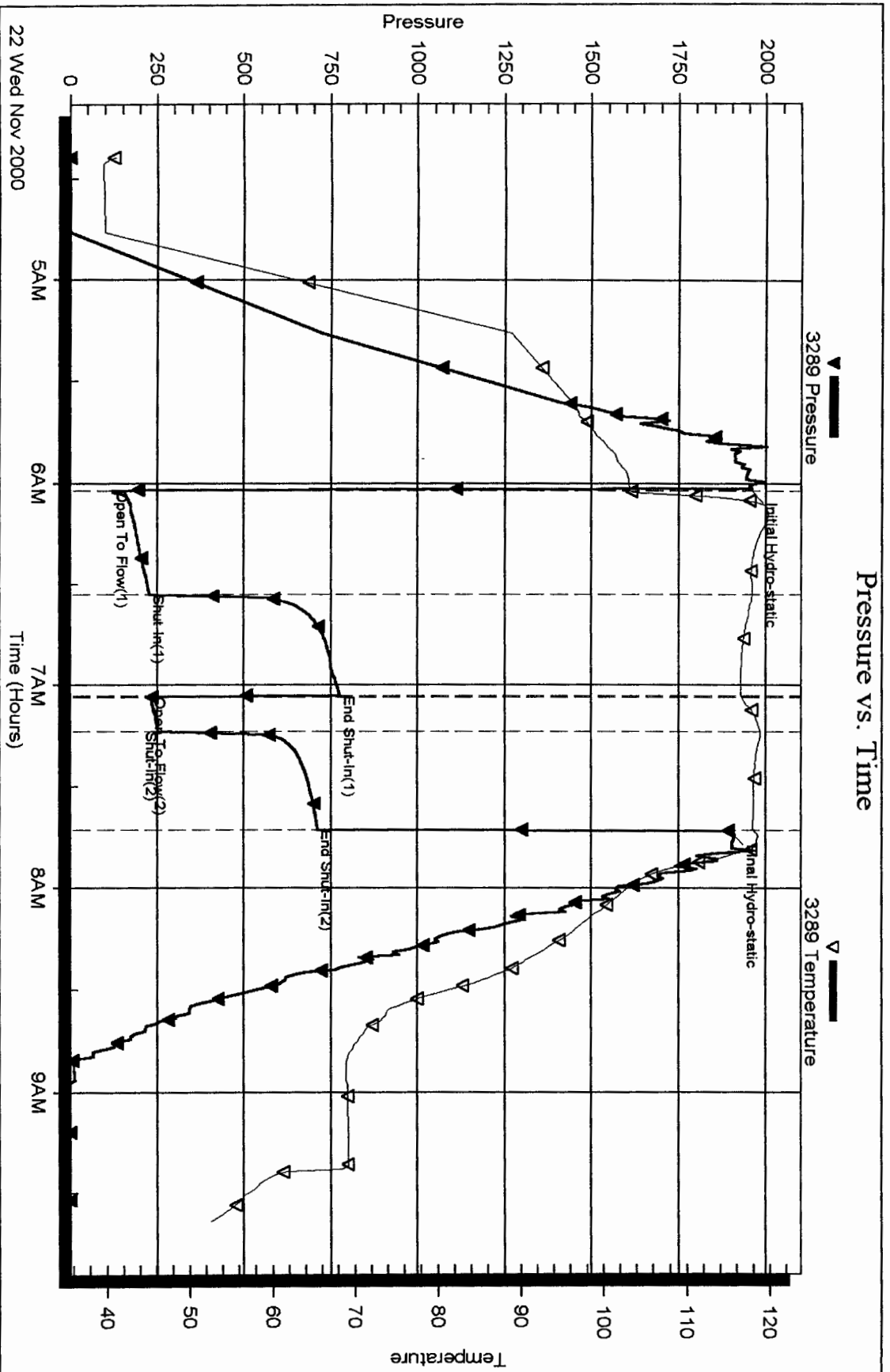
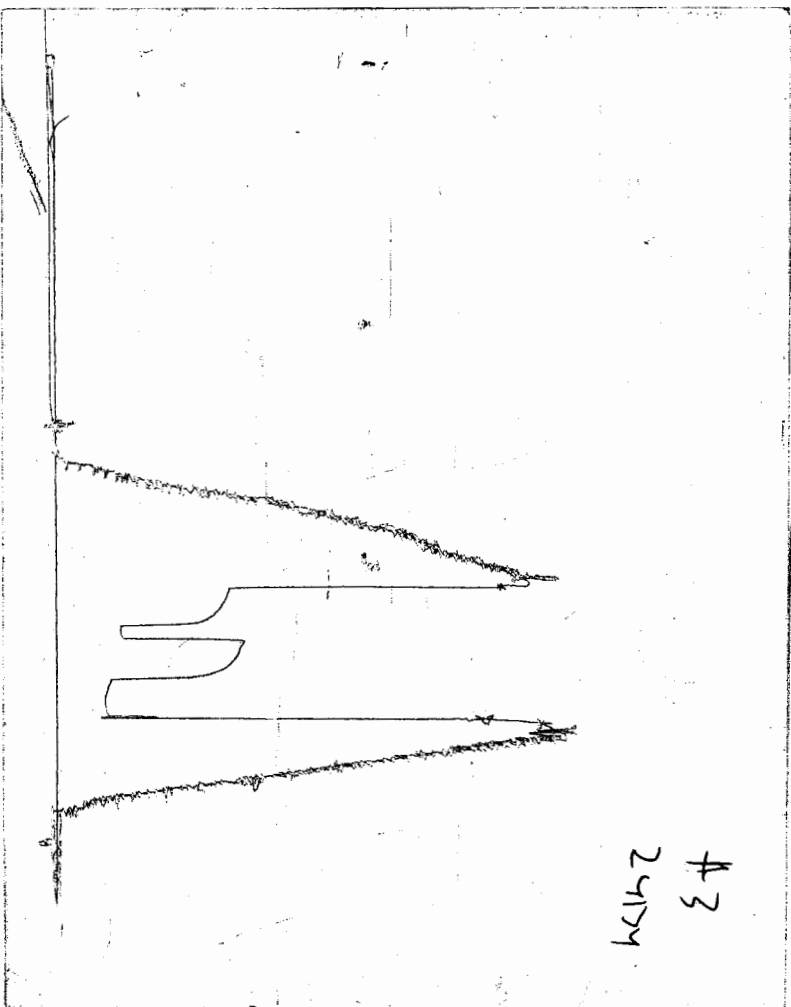


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13817

Test Ticket

Well Name & No.	<u>Desire #1</u>	Test No.	<u>3</u>	Date	<u>11-22-00</u>
Company	<u>Northern Lights Oil Co LLC</u>	Zone Tested	<u>LKS H</u>		
Address			Elevation	KB	GL
Co. Rep / Geo.	<u>Kurt Smith</u>	Cont.	<u>Mallard</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>17</u>	Twp.	<u>9s</u>	Rge.	<u>26w</u>
		Co.	<u>Sheridan</u>	State <u>KS</u>	
No. of Copies	Distribution Sheet (Y, N)		Turnkey (Y, N)		Evaluation (Y, N)

Interval Tested	<u>3932 388 - 3937 3975</u>	Initial Str Wt./Lbs.	Unseated Str Wt./Lbs.
Anchor Length	<u>38</u>	Wt. Set Lbs.	Wt. Pulled Loose/Lbs.
Top Packer Depth	<u>388 3937</u>	Tool Weight	
Bottom Packer Depth	<u>388 3937</u>	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Total Depth	<u>3933</u>	Wt. Pipe Run	Drill Collar Run
Mud Wt.	<u>9.14</u> LCM	Vis.	<u>5.1</u> WL <u>8.6</u>
Drill Pipe Size	<u>4 1/2"</u>	Ft. Run	
Blow Description	<u>IF - 1" blow building to bottom of Ducked in 13 min</u> <u>ISL - no blow</u> <u>SS - surface blow building to 5 1/2"</u>		

Recovery — Total Feet	<u>510</u>	GIP		Ft. in DC		Ft. in DP	
Rec.	<u>210</u>	Feet Of	<u>OSWM</u>	%gas	<u>3</u>	%oil	<u>47</u>
Rec.	<u>300</u>	Feet Of	<u>OSMW</u>	%gas	<u>1</u>	%oil	<u>69</u>
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
Rec.		Feet Of		%gas		%oil	
BHT		°F Gravity		°API D@		°F Corrected Gravity	
RW	<u>.18</u>	@	<u>64</u>	°F Chlorides	<u>46,000</u>	ppm Recovery	
				Chlorides		ppm System	

(A) Initial Hydrostatic Mud	<u>AK-1</u>	Alpine	<u>1954</u>	PSI Recorder No.	<u>3289</u>	T-On Location	<u>0340</u>
(B) First Initial Flow Pressure			<u>123</u>	PSI (depth)		T-Started	<u>0430</u>
(C) First Final Flow Pressure			<u>129</u>	PSI Recorder No.	<u>024174</u>	T-Open	<u>0602</u>
(D) Initial Shut-In Pressure			<u>779</u>	PSI (depth)	<u>3972</u>	T-Pulled	<u>0742</u>
(E) Second Initial Flow Pressure			<u>233</u>	PSI Recorder No.		T-Out	<u>9:38</u>
(F) Second Final Flow Pressure			<u>255</u>	PSI (depth)		T-Off Location	
(G) Final Shut-in Pressure			<u>722</u>	PSI Initial Opening	<u>30</u>	Test	<u>650</u>
(Q) Final Hydrostatic Mud			<u>1548</u>	PSI Initial Shut-in	<u>30</u>	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 _____

Our Representative

Paul Simpson

Final Flow	<u>10</u>	Safety Joint	
Final Shut-in	<u>30</u>	Straddle	
		Circ. Sub	
		Sampler	
		Extra Packer	
		Elec. Rec.	<u>X 150</u>
		Mileage	<u>20 70</u>
		Other	
		TOTAL PRICE \$	<u>870</u>

6:00



**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

Northern Lights Oil
Box 164
Andover, KS 67002
ATTN: Kurt Smith

Desiree #1
17-9s 26w Sheridan K
Job Ticket: 13818 DST#: 4
Test Start: 2000.11.22 @ 20:31:00

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 22:14:38
Time Test Ended: 02:16:00

Test Type: Conventional Bottom Hole
Tester: Paul Simpson
Unit No: 18

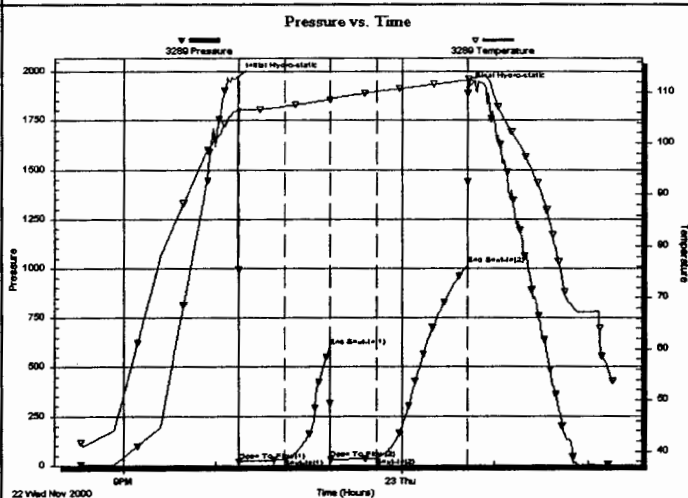
Interval: **3979.00 ft (KB) To 4035.00 ft (KB) (TVD)**
Total Depth: **4035.00 ft (KB)**
Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2690.00 ft (KB)**
2685.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: **3289** Inside
Press@RunDepth: **31.93 psig @ 3983.00 ft (KB)**
Start Date: **2000.11.22** End Date: **2000.11.23**
Start Time: **20:31:55** End Time: **02:16:53**

Capacity: **7000.00 psig**
Last Calib.: **2000.01.03**
Time On Btm: **2000.11.22 @ 22:14:23**
Time Off Btm: **2000.11.23 @ 00:43:08**

TEST COMMENT: tool slid 4' F- 1/2" building to 1"
FF- no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
103	1971.29	106.56	Initial Hydro-static
103	19.35	105.59	Open To Flow (1)
133	26.70	107.16	Shut-In(1)
162	599.36	108.54	End Shut-In(1)
162	28.42	108.31	Open To Flow (2)
192	31.93	110.07	Shut-In(2)
251	1017.09	112.30	End Shut-In(2)
252	1917.65	112.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	slightly oil cut mud 5% oil 95% mud	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil

Desiree #1

Box 164
Andover, KS 67002

17-9s 26w Sheridan K

Job Ticket: 13818

DST#: 4

ATTN: Kurt Smith

Test Start: 2000.11.22 @ 20:31:00

Tool Information

Drill Pipe:	Length: 3738.00 ft	Diameter: 3.80 inches	Volume: 52.43 bbl	Tool Weight: 3500.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight to Pull Loose: 52000.00 lb
Drill Pipe Above KB:	20.00 ft			Tool Chased 2.00 ft
Depth to Top Packer:	3974.00 ft			String Weight: Initial 50000.00 lb
Depth to Bottom Packer:	ft			Final 50000.00 lb
Interval between Packers:	ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments
tool slid 4'

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

C.O. Sub	1.00			3960.00	
S.I. Tool	5.00			3965.00	
HMV	5.00			3970.00	
Packer	4.00			3974.00	15.00 Bottom Of Top Packer
Packer	5.00			3979.00	
Stubb	1.00			3980.00	
Perforations	3.00			3983.00	
Recorder	0.00	3289	Inside	3983.00	
C.O. Sub	1.00			3984.00	
Blank Spacing	32.00			4016.00	
C.O. Sub	1.00			4017.00	
Recorder	0.00	11084	Outside	4017.00	
Perforations	15.00			4032.00	
Bullnose	3.00			4035.00	61.00 Bottom Packers & Anchor

Total Tool Length: 76.00

Serial #: 3289

Inside

Northern Lights Oil

17-9s 26w Sheridan K

Pressure vs. Time

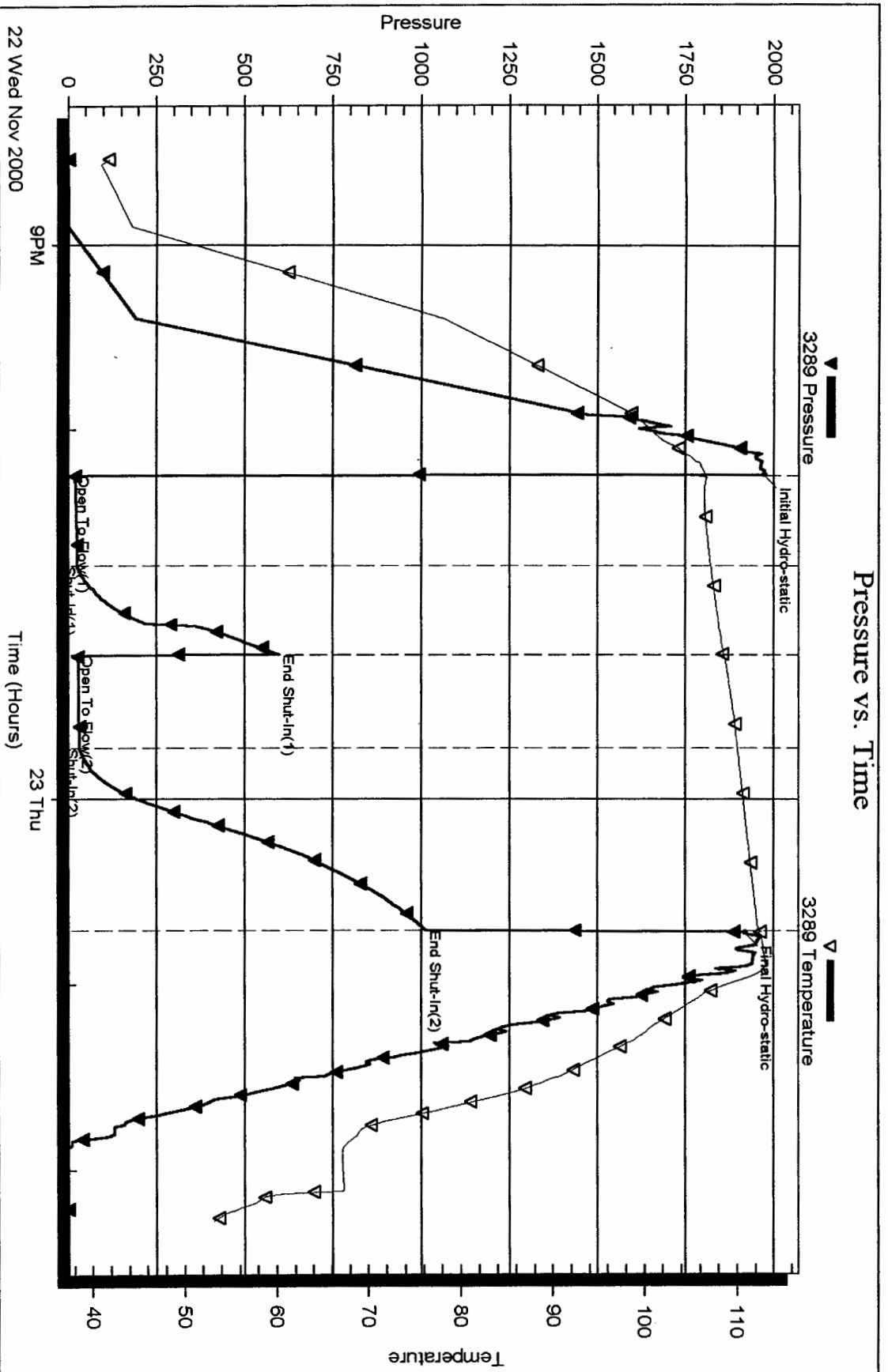
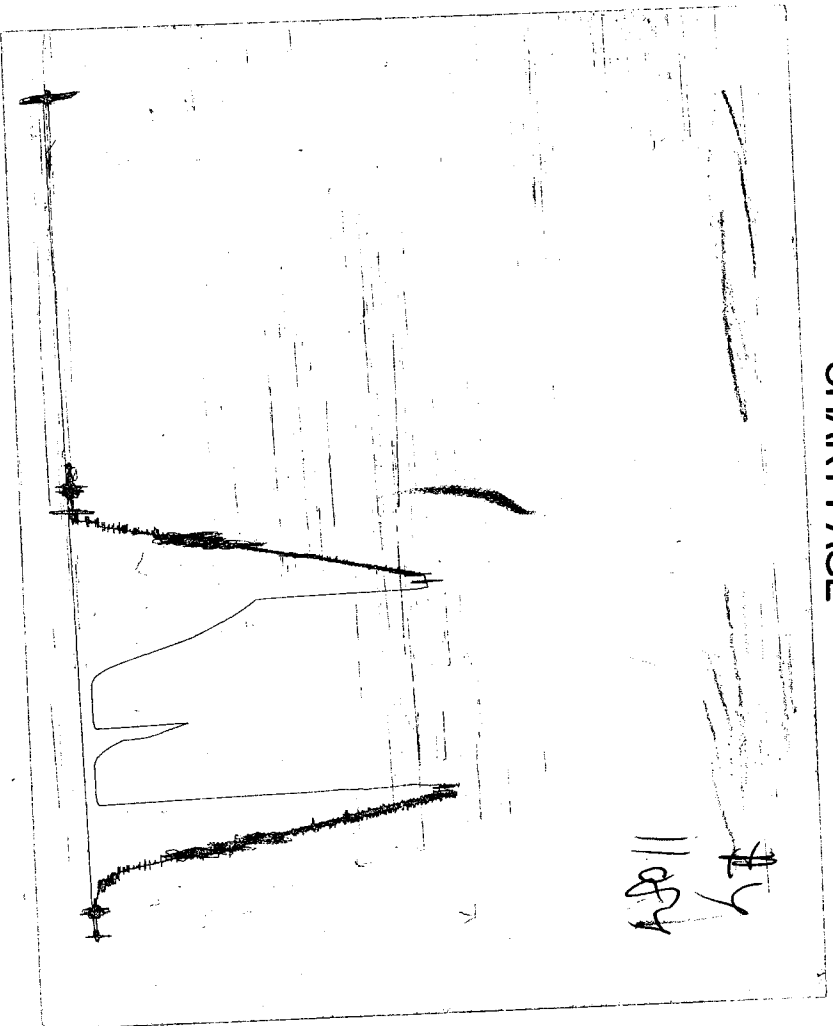


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13818

Test Ticket

Well Name & No. <u>Desiree A1</u>	Test No. <u>4</u>	Date <u>11-27-00</u>
Company <u>Northern Lights Oil, LLC</u>	Zone Tested <u>LKL - DSK</u>	
Address _____	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Kurt Smith</u>	Cont. <u>Mallory</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>17</u> Twp. <u>9S</u>	Rge. <u>26W</u>	Co. <u>Shenandoah</u> State <u>Ky</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3979-4035</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. _____
Anchor Length <u>56</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. _____
Top Packer Depth <u>3974</u>	Tool Weight <u>3500</u>	
Bottom Packer Depth <u>3979</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>4035</u>	Wt. Pipe Run _____	Drill Collar Run <u>241</u>
Mud Wt. <u>9.4</u> LCM _____ Vis. <u>49</u> WL <u>9.2</u>	Drill Pipe Size <u>4 1/2 X 11</u>	Ft. Run <u>3738</u>
Blow Description <u>(tool slide 4' with opening) 1/2" blow</u>		

FF

Recovery — Total Feet <u>10</u>	GIP _____	Ft. in DC <u>10</u>	Ft. in DP _____
Rec. <u>10</u> 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 _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
BHT _____ °F Gravity _____	°API D@ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery	Chlorides _____ ppm System	

(A) Initial Hydrostatic Mud _____	PSI Recorder No. <u>3289</u>	T-On Location <u>2000</u>
(B) First Initial Flow Pressure _____	PSI (depth) <u>3983</u>	T-Started _____
(C) First Final Flow Pressure _____	PSI Recorder No. <u>11084</u>	T-Open <u>2013</u>
(D) Initial Shut-In Pressure _____	PSI (depth) <u>4017</u>	T-Pulled _____
(E) Second Initial Flow Pressure _____	PSI Recorder No. _____	T-Out <u>2116</u>
(F) Second Final Flow Pressure _____	PSI (depth) _____	T-Off Location _____
(G) Final Shut-in Pressure _____	PSI Initial Opening <u>30</u>	Test <u>650</u>
(Q) Final Hydrostatic Mud _____	PSI Initial Shut-in <u>30</u>	Jars _____

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Approved By _____

Our Representative _____

Final Flow _____	Safety Joint _____
Final Shut-in _____	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Elec. Rec. <u>150</u>
	Mileage <u>70</u>
	Other _____
	TOTAL PRICE \$ <u>870</u>