

Well Name: Carothers #1
Company: Noble Petroleum Inc.
Location: 23-34s-1w
Sumner County Kansas
Date: 12-18-98

TRILOBITE TESTING L.L.C.

OPERATOR : Noble Petl.Inc.

DATE 12-14-98

WELL NAME: Carothers #1

KB 1241.00 ft

TICKET NO: 11575

DST #1

LOCATION : 23-34s-1w Sumner co KS

GR 1232.00 ft

FORMATION: Miss.

INTERVAL : 3924.00 To 3953.00 ft

TD 3953.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0534 to 0604 hr
SI 30 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0604 to 0634 hr
SF 30 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0634 to 0704 hr
FS 30 Depth(ft)	3950.0	3950.0	3930.0	0.0	0.0	FS Fr. 0704 to 0734 hr

	Field	1	2	3	4	
A. Init Hydro	1964.0	1959.0	1939.0	0.0	0.0	T STARTED 0329 hr
B. First Flow	30.0	45.0	19.0	0.0	0.0	T ON BOTM 0530 hr
B1. Final Flow	28.0	34.0	19.0	0.0	0.0	T OPEN 0534 hr
C. In Shut-in	112.0	107.0	103.0	0.0	0.0	T PULLED 0738 hr
D. Init Flow	28.0	44.0	18.0	0.0	0.0	T OUT 0910 hr
E. Final Flow	28.0	44.0	21.0	0.0	0.0	
F. Fl Shut-in	141.0	140.0	131.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1909.0	1902.0	1862.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 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 0.00 ft
						D.P. Length 3910.00 ft

RECOVERY

Tot Fluid 15.00 ft of 0.00 ft in DC and 15.00 ft in DP

80.00 ft of Gas in pipe.

15.00 ft of Drilling mud

0.00 ft of Oil scum @ top of tool.

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of Rw n.c. ohms @ degrees F.

0.00 ft of EST.FT. of PAY----- 11

SALINITY 5000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak blow slow increasw to 3" in water

Initial Shut-in:

No blow.

Final Flow:

Weak blow (2-2 1/2")

Final Shut-in:

No blow

SAMPLES: None

SENT TO:Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	46.00 S/L
W.L.	8.00 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	Good
% Porosity	9.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Ablah / Honas
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 3#/bl

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Carothers #1

LOCATION : 23-34s-1w Sumner co KS

WELL No. 11575 D.S.T. No. 1 DATE 12-14-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

FROM TOP PACKERS AND ANCHOR 29

TOTAL TOOL 49

WELL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY 49

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands 63 Single Total 3910

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3959

TOTAL DEPTH 3953

TOTAL DRILL PIPE ABOVE K.B. 6

REMARKS:

Comments:

FLUID SAMPLER DATA (not run)

AS-----
 IL----- ML.
 JD----- ML.
 WATER----- ML.
 OTHER-----
 PRESSURE----- PSI
 v ----- ohms @ deg. F.
 FLORIDES----- ppm.
 GRAVITY----- n/a deg.API

P.O. SUB
 C.O. SUB @ top of tool 3904

S.I. TOOL Sterling 3910

Sampler (no) 5173

HMV Sterling 3915

JARS no

SAFETY JOINT no

PACKER Top 3919

PACKER Btm. 3924

DEPTH 3924
 STUBB 1 ft. 3925

ANCHOR
 perfs

Alpine rec. @ 3930

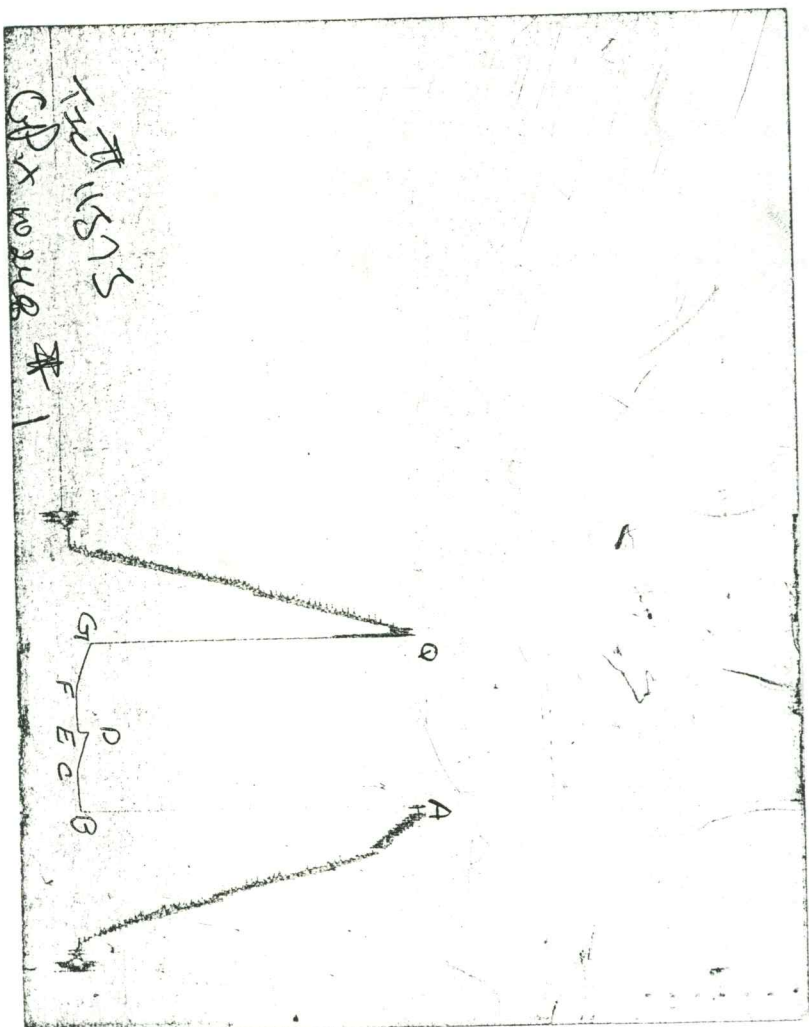
T.C.
 DEPTH

23' perfs to 3948

AK-1 rec. @ 3950

BULLNOSE 5 ft. perforated 3953
 T.D.

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 11575

Well Name & No. <u>CARDTHERS #1</u>	Test No. <u>1</u>	Date <u>12-14-98</u>
Company <u>NOBLE PET. INC</u>	Zone Tested <u>MISS.</u>	
Address <u>3101 N. ROCK RD. STE. 125, WICHITA, KS. 67226</u>	Elevation <u>1241^{est}</u>	KB <u>1232^{est}</u> GL
Co. Rep / Geo. <u>ABLAH / HONAS</u>	Cont. <u>DUKE DRUG. #11</u>	Est. Ft. of Pay <u>11</u> Por. <u>9</u> %
Location: Sec. <u>23</u> Twp. <u>34S</u> Rge. <u>1W</u>	Co. <u>SUMNER</u>	State <u>KS.</u>
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>?</u>	Evaluation (Y, N) <u></u>

Interval Tested <u>3924 - 3953'</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str. Wt./Lbs. <u>50,000</u>
Anchor Length <u>29'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>70,000</u>
Top Packer Depth <u>3919'</u>	Tool Weight <u>2100th</u>	
Bottom Packer Depth <u>3924'</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>3953'</u>	Wt. Pipe Run <u>NONE</u>	Drill Collar Run <u>NONE</u>
Mud Wt. <u>9.3</u> LCM <u>3th</u> Vis. <u>46</u> WL <u>8.0cc.</u>	Drill Pipe Size <u>4 1/2" x H.</u>	Ft. Run <u>3910'</u>
Blow Description <u>IF: Weak below. Slow increase to 3" in H₂O.</u>		
<u>ISI: No blow.</u>		
<u>FF: Weak below. (2-2 1/2") FSI: No blow.</u>		

Recovery — Total Feet <u>15 Fluid</u>	GIP <u>80'</u>	Ft. in DC <u>~</u>	Ft. in DP <u>15'</u>
Rec. <u>15</u> Feet Of <u>Orig. Mud.</u>	%gas	%oil	%water %mud
Rec. <u></u> Feet Of <u>Oil sum @ top</u>	%gas	%oil	%water %mud
Rec. <u></u> Feet Of <u>of total</u>	%gas	%oil	%water %mud
Rec. <u></u> Feet Of <u></u>	%gas	%oil	%water %mud
Rec. <u></u> Feet Of <u></u>	%gas	%oil	%water %mud
BHT <u>120</u> °F Gravity <u>N/A</u>	°API D@ <u>~</u>	°F Corrected Gravity <u>N/A</u>	°API
RW <u>N.C.</u> @ <u>~</u> °F	Chlorides <u>5,000</u> ppm	Recovery	Chlorides <u>5000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1964</u>	Alpine <u>1939</u>	PSI Recorder No. <u>2342</u>	T-On Location <u>0225</u>
(B) First Initial Flow Pressure	<u>30</u>	<u>19</u>	PSI (depth) <u>3830'</u>	T-Started <u>0329</u>
(C) First Final Flow Pressure	<u>28</u>	<u>19</u>	PSI Recorder No. <u>10248</u>	T-Open <u>0534</u>
(D) Initial Shut-In Pressure	<u>112</u>	<u>103</u>	PSI (depth) <u>3950'</u>	T-Pulled <u>0738</u>
(E) Second Initial Flow Pressure	<u>28</u>	<u>18</u>	PSI Recorder No. <u>~</u>	T-Out <u>0910</u>
(F) Second Final Flow Pressure	<u>28</u>	<u>21</u>	PSI (depth) <u>~</u>	T-Off Location <u>1045</u>
(G) Final Shut-in Pressure	<u>141</u>	<u>131</u>	PSI Initial Opening <u>30</u>	Test <u>✓ 600</u>
(Q) Final Hydrostatic Mud	<u>1969</u>	<u>1862</u>	PSI Initial Shut-in <u>30</u>	Jars <u></u>
			Final Flow <u>30</u>	Safety Joint <u></u>
			Final Shut-in <u>30</u>	Straddle <u></u>
			<u>4</u>	Circ. Sub <u></u>
				Sampler <u></u>

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Approved By [Signature]

Our Representative [Signature]

Extra Packer
Elec. Rec. ✓ 150
Mileage

Other
TOTAL PRICE \$ ✓ 750.00